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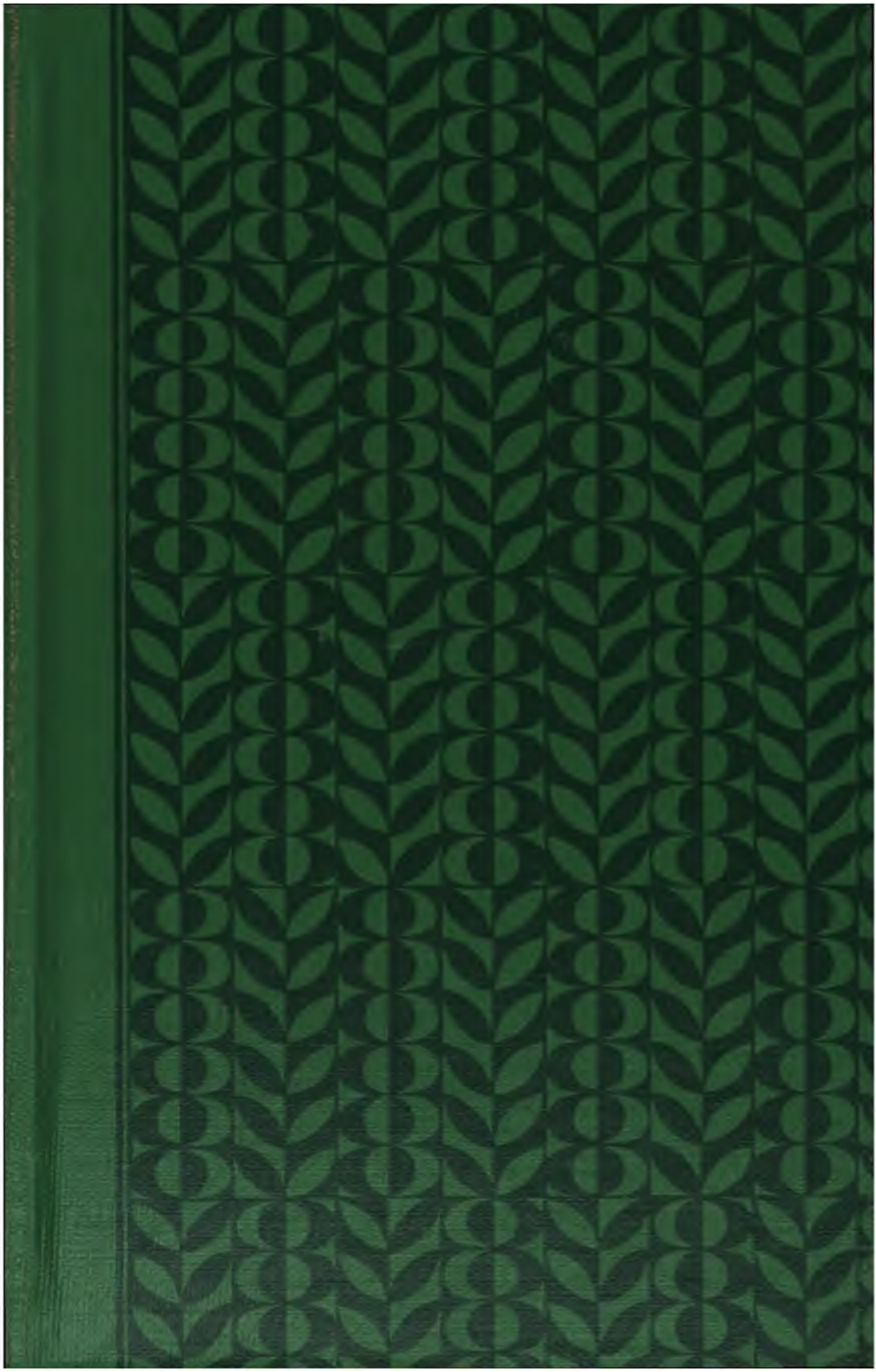

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TROY

AND ITS REMAINS;

A NARRATIVE OF RESEARCHES AND DISCOVERIES

MADE ON THE SITE OF ILIUM,

AND IN THE TROJAN PLAIN.

BY DR. HENRY SCHLIEMANN.

Translated with the Author's Sanction.

EDITED

BY PHILIP SMITH, B.A.,

AUTHOR OF THE 'HISTORY OF THE ANCIENT WORLD,' AND OF THE 'STUDENT'S ANCIENT HISTORY OF THE EAST.'

WITH MAP, PLANS, VIEWS, AND CUTS,

REPRESENTING 500 *OBJECTS OF ANTIQUITY DISCOVERED ON THE SITE.*

LONDON:

JOHN MURRAY, ALBEMARLE STREET.

1875.

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LONDON:
PRINTED BY WILLIAM CLOWES AND SONS,
STAMFORD STREET AND CHARING CROSS.

PREFACE BY THE EDITOR.

DR. SCHLIEMANN'S original narrative of his wonderful discoveries on the spot marked as the site of Homer's ILIUM by an unbroken tradition, from the earliest historic age of Greece, has a permanent value and interest which can scarcely be affected by the final verdict of criticism on the result of his discoveries. If he has indeed found the fire-scathed ruins of the city whose fate inspired the immortal first-fruits of Greek poetry, and brought to light many thousands of objects illustrating the race, language, and religion of her inhabitants, their wealth and civilization, their instruments and appliances for peaceful life and war; and if, in digging out these remains, he has supplied the missing link, long testified by tradition as well as poetry, between the famous Greeks of history and their kindred in the East; no words can describe the interest which must ever belong to the first birth of such a contribution to the history of the world. Or should we, on the other hand, in the face of all that has been revealed on the very spot of which the Greeks themselves believed that Homer sang, lean to the scepticism of the scholar who still says:—"I know as yet of one Ilion only, that is, the Ilion as sung by Homer, which is not likely to be found in the trenches of Hissarlik, but rather among the Muses who dwell on Olympus;" even so a new interest of historic and antiquarian curiosity would be excited by "the splendid ruins," as the same high authority rightly calls those "which

Dr. Schliemann has brought to light at Hissarlik." For what, in that case, were the *four cities*, whose successive layers of ruins, still marked by the fires that have passed over them in turn, are piled to the height of fifty feet above the old summit of the hill? If not even one of them is TROY, what is the story, so like that of Troy, which belongs to them?

> "Trojæ renascens alite lugubri
> Fortuna tristi clade iterabitur."

What is the light that is struggling to break forth from the varied mass of evidence, and the half-deciphered inscriptions, that are still exercising the ingenuity of the most able enquirers? Whatever may be the true and final answer to these questions—and we have had to put on record a signal proof that the most sanguine investigators will be content with no answer short of the truth*—the vivid narrative written by the discoverer on the spot can never lose that charm which Renan has so happily described as "la charme des origines."

The Editor may be permitted to add, what the Author might not say, that the work derives another charm from

highest problems of antiquity, *at his own expense.* His readers ought to know that, besides other large contributions to the cause of learning, the cost of his excavations at Hissarlik alone has amounted to 10,000*l.*; and this is in no sense the speculative investment of an explorer, for he has expressed the firm resolution to *give away* his collection, and not to *sell* it.

Under this sense of the high and lasting value of Dr. Schliemann's work, the present translation has been undertaken, with the object of laying the narrative before English readers in a form considerably improved upon the original. For this object the Editor can safely say, on behalf of the Publisher and himself, that no pains and cost have been spared; and Dr. Schliemann has contributed new materials of great value.

The original work* was published, at the beginning of this year, as an octavo volume, accompanied by a large quarto "Atlas" of 217 photographic plates, containing a Map, Plans, and Views of the Plain of Troy, the Hill of Hissarlik, and the excavations, with representations of upwards of 4000 objects selected from the 100,000 and more brought to light by Dr. Schliemann, which were elaborately described in the letter-press pages of the Atlas. The photographs were taken for the most part from drawings; and Dr. Schliemann is the first to acknowledge that their

* "*Trojanische Alterthümer. Bericht über die Ausgrabungen in Troja*, von DR. HEINRICH SCHLIEMANN. Leipzig, in Commission bei F. A. Brockhaus, 1874." It may be convenient to state here, lest the reader should be disappointed at finding no details of the excavations at Hissarlik in the first year (1870), that the work of that year was merely preliminary to the systematic researches of 1871–3. An account of that first year's work, and of the arguments which convinced Dr. Schliemann that he must search for Troy at Hissarlik and no where else, will be found in his earlier work, "*Ithaque, le Péloponnèse, et Troie.*"

execution left much to be desired. Many of his original plans and drawings have been placed at our disposal; and an especial acknowledgment is due both to Dr. Schliemann and Monsieur Émile Burnouf, the Director of the French School at Athens, for the use of the admirable drawings of the terra-cotta *whorls* and *balls* made by M. Burnouf and his accomplished daughter. A selection of about 200 of these objects, which are among the most interesting of Dr. Schliemann's discoveries, occupies the 32 lithographic plates at the end of this volume. With the exception of the first three Plates (XXI.–XXIII.), which are copied from the Atlas, in order to give a general view of the *sections* of the whorls and the chief *types* of the patterns upon them, all the rest are engraved from M. Burnouf's drawings. They are given in the *natural size*, and each whorl is accompanied by its section. The *depth* at which each object was found among the layers of *débris* is a matter of such moment (as will be seen from Dr. Schliemann's work) that the Editor felt bound to undertake the great labour of identifying each with the representation of the same object in the Atlas, where the depth is marked, to which, unfortunately, the drawings gave no reference. The few

distinct types. Most of these types are exhibited on Plates XXII. and XXIII.

The selection of the 300 illustrations inserted in the body of the work has been a matter of no ordinary labour. One chief point, in which the present work claims to be an improvement on the original, is the exhibition of the most interesting objects in Dr. Schliemann's collection in their proper relation to the descriptions in his text. The work of selection from 4000 objects, great as was the care it required, was the smallest part of the difficulty. It is no disparagement to Dr. Schliemann to recognize the fact that, amidst his occupations at the work through the long days of spring and summer, and with little competent help save from Madame Schliemann's enthusiasm in the cause, the objects thrown on his hands from day to day could only be arranged and depicted very imperfectly. The difficulty was greatly enhanced by a circumstance which should be noticed in following the order of Dr. Schliemann's work. It differed greatly from that of his forerunners in the modern enterprise of penetrating into the mounds that cover the primeval cities of the world. When, for example, we follow Layard into the mound of Nimrud, and see how the rooms of the Assyrian palaces suddenly burst upon him, with their walls lined with sculptured and inscribed slabs, we seem almost to be reading of Aladdin's descent into the treasure-house of jewels. But Schliemann's work consisted in a series of transverse cuttings, which laid open sections of the various strata, from the present surface of the hill to the virgin soil. The work of one day would often yield objects from almost all the strata; and each successive trench repeated the old order, more or less, from the remains of Greek Ilium to those of the first settlers on the hill. The marvel is that Dr. Schliemann should have been able to preserve any order at all, rather than that he was

obliged to abandon the attempt in the later Plates of his Atlas (see p. 225); and special thanks are due for his care in continuing to note the depths of all the objects found. This has often given the clue to our search, amidst the mixed objects of a similar nature on the photographic Plates, for those which he describes in his text, where the figures referred to by Plate and Number form the exception rather than the rule. We believe that the cases in which we have failed to find objects really worth representing, or in which an object named in the text may have been wrongly identified in the Plates, are so few as in no way to affect the value of the work. How much, on the other hand, its value is increased by the style in which our illustrations have been engraved, will be best seen by a comparison with the photographic Plates. It should be added that the present work contains all the illustrations that are now generally accessible, as the Atlas is out of print, and the negatives are understood to be past further use.

Twelve of the views (Plates II., III., IV., V., VI., VII. A and B, IX., X., XI. A and B, and XII., besides the Great Altar, No. 188) were engraved by Mr. Whymper; all the other views and cuts by Mr. James D. Cooper; and the

those mistakes and contradictions on matters of opinion, due to the novelty and the rapid progress of the discoveries, which Dr. Schliemann has confessed and explained at the opening of his work (see p. 12). To have attempted a systematic correction and harmonizing of such discrepancies would have deprived the work of all its freshness, and of much of its value as a series of landmarks in the history of Dr. Schliemann's researches, from his first firm conviction that Troy was to be sought in the Hill of Hissarlik, to his discovery of the "Scæan Gate" and the "Treasure of Priam." The Author's final conclusions are summed up by himself in the "Introduction;" and the Editor has thought it enough to add to those statements, which seemed likely to mislead the reader for a time, references to the places where the correction may be found. On one point he has ventured a little further. All the earlier chapters are affected by the opinion, that the lowest remains on the native rock were those of the Homeric Troy, which Dr. Schliemann afterwards recognized in the stratum next above. To avoid perpetual reference to this change of opinion, the Editor has sometimes omitted or toned down the words "Troy" and "Trojan" as applied to the *lowest stratum*, and, both in the "Contents" and running titles, and in the descriptions of the Illustrations, he has throughout applied those terms to the discoveries in the *second stratum*, in accordance with Dr. Schliemann's ultimate conclusion.

In a very few cases the Editor has ventured to correct what seemed to him positive errors.* He has not deemed it any part of his duty to discuss the Author's opinions or to review his conclusions. He has, however, taken such

* Several misprints and wrong references in the original have been corrected. For the correction respecting the *débris* at Jerusalem (note to p. 218), the Editor is indebted to his friend Mr. George Grove.

opportunities as suggested themselves, to set Dr. Schliemann's statements in a clearer light by a few illustrative annotations. Among the rest, the chief passages cited from Homer are quoted in full, with Lord Derby's translation, and others have been added (out of many more which have been noted), as suggesting remarkable coincidences with the objects found by Dr. Schliemann.

From the manner in which the work was composed, and the great importance attached by Dr. Schliemann to some leading points of his argument, it was inevitable that there should be some repetitions, both in the Memoirs themselves, and between them and the Introduction. These the Editor has rather endeavoured to abridge than completely to remove. To have expunged them from the Memoirs would have deprived these of much of the interest resulting from the discussions which arose out of the discoveries in their first freshness; to have omitted them from the Introduction would have marred the completeness of the Author's summary of his results. The few repetitions left standing are a fair measure of the

because Dr. Schliemann gives both (as he often does), but for another sufficient reason. A chief key to the significance of the discoveries is found in the *depths* of the successive *strata* of remains, which are exhibited in the form of a diagram on page 10. The numbers which express these in *Meters** are so constantly used by Dr. Schliemann, and are so much simpler than the English equivalents, that they have been kept as a sort of "memory key" to the strata of remains. For the like reason, and for simplicity-sake, the depths appended to the Illustrations are given in meters only. The *Table of French and English Measures* on page 56 will enable the reader to check our conversions and to make his own. The Editor has added an Appendix, explaining briefly the present state of the deeply interesting question concerning the *Inscriptions* which have been traced on some of the objects found by Dr. Schliemann.

With these explanations the Editor might be content to leave the work to the judgment of scholars and of the great body of educated persons, who have happily been brought up in the knowledge and love of Homer's glorious poetry, "the tale of Troy divine," and of

"Immortal Greece, dear land of glorious lays."

Long may it be before such training is denied to the imagination of the young, whether on the low utilitarian ground, or on the more specious and dangerous plea of making it the select possession of the few who can acquire it "thoroughly":

Νήπιοι, οὐκ ἴσασιν ὅσῳ πλέον ἥμισυ παντός.

To attempt a discussion of the results of Dr. Schlie-

* The Anglicized form of the word is used as a matter of common sense and convenience. Dr. Schliemann does the same in German.

mann's discoveries would be alike beyond the province of an Editor, and premature in the present state of the investigation. The criticisms called forth both in England and on the Continent, during the one year that has elapsed since the publication of the work, are an earnest of the more than ten years' duration of that new War of Troy for which it has given the signal. The English reader may obtain some idea of the points that have been brought under discussion by turning over the file of the "*Academy*" for the year, not to speak of many reviews of Schliemann's work in other periodicals and papers. Without plunging into these varied discussions, it may be well to indicate briefly certain points that have been established, some lines of research that have been opened, and some false issues that need to be avoided.

First of all, the integrity of Dr. Schliemann in the whole matter—of which his self-sacrificing spirit might surely have been a sufficient pledge—and the genuineness of his discoveries, are beyond all suspicion. We have, indeed, never seen them called in question, except in what

A letter by Mr. Frank Calvert, who is so honourably mentioned in the work, deserves special notice for the implied testimony which it bears to Dr. Schliemann's good faith, while strongly criticising some of his statements.*

Among the false issues raised in the discussion, one most to be avoided is the making the value of Dr. Schliemann's discoveries dependent on the question of the site of Troy as determined by the *data* furnished by the Iliad. The position is common to Schliemann and his adverse critics, that Homer never saw the city of whose fate he sang;—because, says Schliemann, it had long been buried beneath its own ashes and the cities, or the ruins of the cities, built above it;—because, say the objectors, Homer created a Troy of his own imagination. The former existence and site of Troy were known to Homer—says Schliemann—by the unbroken tradition belonging to the spot where the Greek colonists founded the city which they called by the same name as, and believed to be the true successor of, the Homeric ILIUM. Of this, it is replied, we know nothing, and we have no other guide to *Homer's Troy* save the data of the Iliad. Be it so; and if those data really point to Hissarlik—as was the universal opinion of antiquity, till a sceptical grammarian invented another site, which all scholars now reject—as was also the opinion of modern scholars, till the new site of Bunarbashi was invented by Lechevalier to suit the Iliad, and accepted by many critics, but rejected by others, including the high authority of Grote—then the conclusion is irresistible, that Schliemann has found the Troy of which Homer had heard through the lasting report of poetic fame: Ἡμεῖς δὲ

* The *Athenæum*, November 7th, 1874. Some of Mr. Calvert's corrections seem of importance, but we have not felt it right to use them in the absence of the reply which Dr. Schliemann will doubtless make, as he has done to his other critics.

κλέος οἷον ἀκούομεν.* But the corresponding *negative* does *not* follow; for, if Homer's Troy was but a city built in the ethereal region of his fancy, his placing it at Bunarbashi, or on any other spot, could not affect the lost site of the true Troy, *if such a city ever existed*, and therefore can be no objection to the argument, that the discovery of an ancient city on the traditional site of the heroic Troy confirms the truth of the tradition on both points—the *real existence* of the city, as well as its existence on this site. The paradox—that Troy never existed and that Bunarbashi was its site—was so far confirmed by Schliemann that he dug at Bunarbashi, and found clear evidence that the idea of a great city having ever stood there is a mere imagination. The few remains of walls, that were found there, confirm instead of weakening the negative conclusion; for they are as utterly inadequate to be the remains of the "great, sacred, wealthy Ilium," as they are suitable to the little town of Gergis, with which they are now identified by an inscription. In short, that the real city of Troy could not have stood at Bunarbashi, is one of the most certain results of Schliemann's researches.

The same sure test of downright digging has finally disposed of all the other suggested sites, leaving by the "method of exhaustion" the inevitable conclusion, that

the Hill of Hissarlik. And that Homer, or—if you please—the so-called Homeric bards, familiar with the Troad, and avowedly following tradition, should have imagined a different site, would be, at the least, very surprising. This is not the place for an analysis of the Homeric local evidence; but, coming fresh from a renewed perusal of the *Iliad* with a view to this very question, the Editor feels bound to express the conviction that its indications, while in themselves consistent with the site of Hissarlik, can be interpreted in no other way, now that we know what that site contains.*

Standing, as it does, at the very point of junction between the East and West, and in the region where we find the connecting link between the primitive Greeks of Asia and Europe,† the Hill of Hissarlik answers at once to the primitive type of a Greek city, and to the present condition of the primeval capitals of the East. Like so many of the first, in Greece, Asia Minor, and Italy, the old city was a hill-fort, an Acropolis built near but not close upon the sea, in a situation suited at once for defence against the neighbouring barbarians, and for the prosecution of that commerce, whether by its own maritime enterprise, or by intercourse with foreign voyagers, of which the copper, ivory, and other objects from the ruins furnish decisive

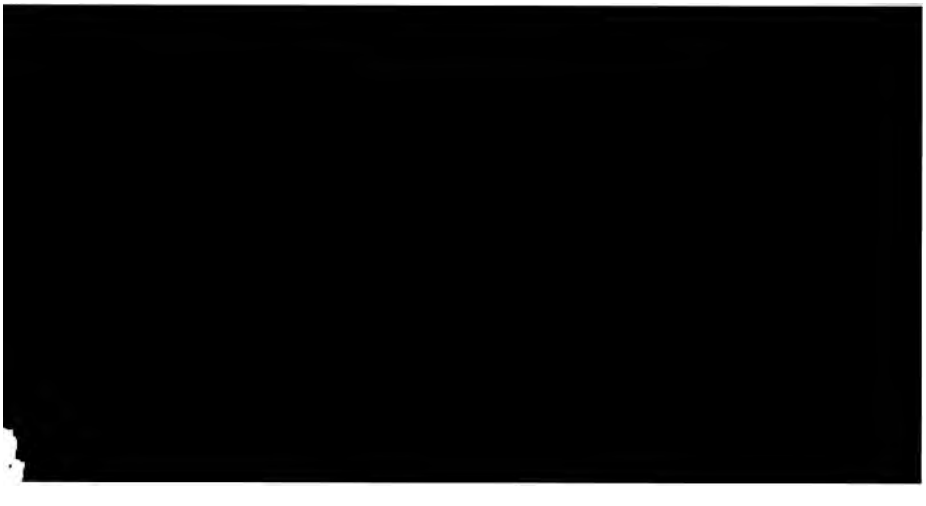
* The excellent dissertation by Dr. Eckenbrecher, to which Schliemann refers at page 46, has just been republished in a revised edition, "*Die Lage des Homerischen Troja*, von Dr. GUSTAV VON ECKENBRECHER." With 2 Maps and a View of Hissarlik, 1875. The Author has purposely kept his argument in favour of the site at Hissarlik, from Homer and the later classical writers, distinct from what he distinctly accepts as its confirmation by Schliemann's discoveries.

† See the remarks on this point in the *Appendix*, p. 364. Lest the views here indicated should seem to be at variance with the frequent use of the term "pre-Hellenic" throughout this work, it may be well to explain, once for all, that "pre-Hellenic" is to be taken as signifying nothing else than "before the occupation of the site by the people of the historical Greek Ilium."

proofs.* This type is as conspicuously wanting at Bunarbashi, as it is well marked by the site of Hissarlik.

Like the other great oriental capitals of the Old World, the present condition of Troy is that of a mound, such as those in the plain of the Tigris and Euphrates, offering for ages the invitation to research, which has only been accepted and rewarded in our own day. The resemblance is so striking, as to raise a strong presumption that, as the mounds of Nimrud and Kouyunjik, of Khorsabad and Hillah, have been found to contain the palaces of the Assyrian and Babylonian kings, so we may accept the ruins found in the mound of Hissarlik as those of the capital of that primeval empire in Asia Minor, which is indicated by the Homeric tradition, and proved to have been a reality by the Egyptian monuments.†

This parallel seems to throw some light on a question, concerning which Dr. Schliemann is forced to a result which disappointed himself, and does not appear satisfactory to us—that of the magnitude of Troy. As the mounds opened by Layard and his fellow labourers contained only the "royal quarters," which towered above the rude buildings of cities the magnitude of which is attested by abundant proofs, so it is reasonable to believe that the ruins at Hissarlik are those of the royal quarter, the only



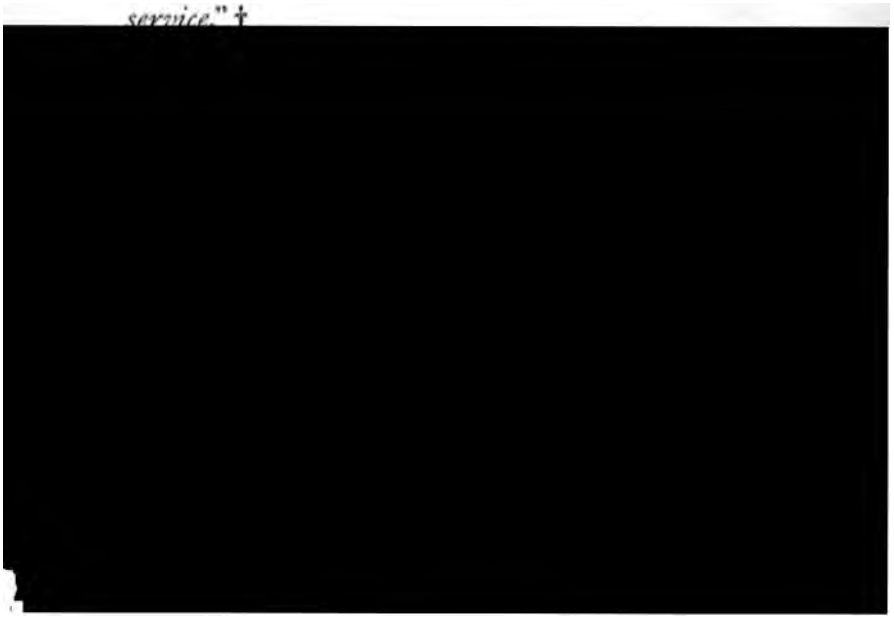
really *permanent* part of the city, built on the hill capping the lower plateau which lifted the huts of the common people above the marshes and inundations of the Scamander and the Simoïs. In both cases the fragile dwellings of the multitude have perished; and the pottery and other remains, which were left on the surface of the plateau of Ilium, would naturally be cleared away by the succeeding settlers. Instead, therefore, of supposing with Schliemann, that Homer's poetical exaggeration invented the "Pergamus," we would rather say that he exalted the mean dwellings that clustered about the Pergamus into the "well-built city" with her "wide streets."

We cannot sympathize with the sentimental objection that, in proportion as the conviction grows that the Troy of Homer has been found, his poetry is brought down from the heights of pure imagination. Epic Poetry, the very essence of which is narrative, has always achieved its noblest triumphs in celebrating events which were at least believed to be real, not in the invention of incidents and deeds purely imaginary. The most resolute deniers of any historic basis for the story of Troy will admit that neither the scene nor the chief actors were invented by Homer, or, if you please, the Homeric poets, who assuredly believed the truth of the traditions to which the *Iliad* gave an immortal form. Any discovery which verifies that belief strengthens the foundation without impairing the superstructure, and adds the interest of truthfulness to those poetic beauties which remain the pure creation of Homer.

Leaving the Homeric bearings of the question to the discussion of which no speedy end can be anticipated, all are agreed that Dr. Schliemann's discoveries have added immensely to that growing mass of evidence which is tending to solve one of the most interesting problems in the history of the world, the connection between the East and

West, especially with regard to the spread of Aryan civilization.* Two points are becoming clearer every day, the early existence of members of the Greek race on the shores of Asia, and the essential truth of those traditions about the Oriental influence on Greek civilization, which, within our own remembrance, have passed through the stages of uncritical acceptance, hypercritical rejection, and discriminating belief founded on sure evidence.

It would seem as if Troy, familiar to our childhood as the point of contact in poetry between the East and West, were reappearing in the science of archæology as a link between the eastern and western branches of the antiquities of the great Aryan family, extending its influence to our own island in another sense than the legend of Brute the Trojan. How great an increase of light may soon be expected from the deciphering of the Inscriptions found at Hissarlik may be inferred, in part, from the brief account, in the Appendix, of the progress thus far made. In fine, few dissentients will be found from the judgment of a not too favourable critic, that "Dr. Schliemann, in spite of his over-great enthusiasm, ... *has done the world an incalculable service.*" †



some practical purpose may be inferred both from this very abundance, and from the occurrence of similar objects among the remains of various early races. Besides the examples given by Dr. Schliemann, they have been found in various parts of our own island, and especially in Scotland, but always (we believe) without decorations. On the other hand, the Aryan emblems and the inscriptions * marked upon them would seem to show that they were applied to, if not originally designed for, some higher use. It seems quite natural for a simple and religious race, such as the early Aryans certainly were, to stamp religious emblems and sentences on objects in daily use, and then to consecrate them as *ex voto* offerings, according to Dr. Schliemann's suggestion. The astronomical significance, which Schliemann finds in many of the whorls, is unmistakeable in most of the terra-cotta balls; and this seems to furnish evidence that the people who made them had some acquaintance, at least, with the astronomical science of Babylonia.

The keen discussion provoked by Dr. Schliemann's novel explanation of the θέα γλαυκῶπις Ἀθήνη might be left "a pretty quarrel as it stands," † did there not appear to be a key of which neither party has made sufficient use. The symbolism, which embodied divine attributes in animal forms, belonged unquestionably to an early form of the Greek religion, as well as to the Egyptian and Assyrian.‡

* Had the first conclusions of Haug and Gomperz remained good, we should have had the very significant evidence that all the inscriptions were in the nature of dedications or invocations; but of course this question must now be held in suspense.

† See Max Müller's Review of Schliemann in the *Academy*, Jan. 10th, 1874, p. 39; Schliemann's Reply, entitled 'Hera Boöpis and Athené Glaukopis,' *Ibid.* Nov. 21st, 1874, p. 563, and Max Müller's Rejoinder, *Ibid.* Nov. 24th, p. 585.

‡ On the whole subject of this symbolism see the recent work of PROFESSOR CONZE on the 'Figures of Heroes and Gods' (*Heroen- und*

The ram-headed Ammon, the hawk-headed Ra, the eagle-headed Nisroch, form exact precedents for an owl-headed Athena, a personation which may very well have passed into the slighter forms of owl-faced, owl-eyed, bright-eyed. Indeed, we see no other explanation of the constant connection of the owl with the goddess, which survived to the most perfect age of Greek sculpture. The question is not to be decided by an etymological analysis of the sense of γλαυκῶπις in the Greek writers, long after the old symbolism had been forgotten, nor even by the sense which Homer may have attached to the word in his own mind. One of the most striking characters of his language is his use of *fixed epithets;* and he might very well have inherited the title of the tutelar goddess of the Ionian race with the rest of his stock of traditions. If γλαυκῶπις were merely a common attributive, signifying "bright-eyed," it is very remarkable that Homer should never apply it to mortal women, or to any goddess save Athena. We are expressing no opinion upon the accuracy of Schliemann's identification in every case; but the *rudeness* of many of his

may be allowed to their very remarkable correspondence with the traditions relating to the site. First, Homer recognizes a city which preceded the Ilium of Priam, and which had been destroyed by Hercules; and Schliemann found a primeval city, of considerable civilization, on the native rock, below the ruins which he regards as the Homeric Troy. Tradition speaks of a Phrygian population, of which the Trojans were a branch, as having apparently displaced, and driven over into Europe, the kindred Pelasgians. Above the second stratum are the remains of a third city, which, in the type and patterns of its terra-cottas, instruments, and ornaments, shows a close resemblance to the second; and the link of connection is rivetted by the inscriptions in the same character in both strata. And so, in the Homeric poems, every reader is struck with the common bonds of genealogy and language, traditions and mutual intercourse, religion and manners, between the Greeks who assail Troy and the Trojans who defend it. If the legend of the Trojan War preserves the tradition of a real conquest of the city by a kindred race, the very nature of the case forbids us to accept literally the story, that the conquerors simply sailed away again.* It is far more reasonable to regard the *ten years* of the War, and the *ten years* of the *Return of the Chiefs* (Νόστοι) as cycles of ethnic struggles, the details of which had been sublimed into poetical traditions. The fact, that Schliemann traces in the third stratum a civilization lower than in the second, is an objection only from the point of view of our classical prepossessions. There are not wanting indications in

* While writing this, we remember (though without the means of verification at hand) that Niebuhr maintains the same view in his 'Lectures on Ancient History'; and it is confirmed by the tradition among the Æolians of the Troad, that Agamemnon was the founder of their colony (κτίστης).

Homer (as Curtius, among others, has pointed out) tha the Trojans were more civilized and wealthy than th Greeks; and in the much earlier age, to which the con flict—if real at all—must have belonged, we may be sur that the Asiatic people had over their European kindre an advantage which we may venture to symbolize by th golden arms of Glaucus and the brazen arms of Diome (Homer, *Iliad*, VI. 235, 236). Xanthus, the old historia of Lydia, preserves the tradition of a reflux migration o Phrygians from Europe into Asia, after the Trojan War, and says that they conquered Troy and settled in it territory. This migration is ascribed to the pressure o the barbarian Thracians; and the fourth stratum, with it traces of merely wooden buildings, and other marks of lower stage of civilization, corresponds to that conquest o the Troad by those same barbarian Thracians, the traditio of which is preserved by Herodotus and other writers. Th primitive dwellings of those races in Thrace still furnis the flint implements, which are most abundant in th fourth stratum at Hissarlik.

The extremely interesting concurrence of instrument

these furnish a caution against the too hasty application of the theory of the Ages of Stone, Bronze, and Iron.

Another illustration is worth adding of the persistence of the forms of objects in common use in the same region. (See p. 47.) Mr. Davis, in his recently published travels in Asia Minor,* describes a wooden vessel for carrying water, which he saw at Hierapolis, in Phrygia, of the very same form as the crown-handled vase-covers of terra-cotta found in such numbers by Schliemann (see pp. 25, 48, 86, 95, &c.). "They are made of a section of the pine: the inside is hollowed from below, and the bottom is closed by another piece of wood exactly fitted into it." The two drawings given by Mr. Davis closely resemble our cut, No. 51, p. 86.

Our last letter from Dr. Schliemann announced the approaching termination of his lawsuit with the Turkish Government, arising out of the dispute referred to in the 'Introduction' (p. 52). The collection has been valued by two experts; and Dr. Schliemann satisfies the demand of the Turkish Government by a payment in cash, and an engagement to continue the excavations in Troy for three or four months for the benefit of the Imperial Museum at Constantinople. We rejoice that he has not "closed the excavations at Hissarlik for ever" (see p. 356), and wait to see what new discoveries may equal or surpass those of the "Scæan Gates," the "Palace," and the "Treasure of Priam."

Meanwhile, as the use of so mythical a name as that of Troy's last king has furnished a special butt for critical scorn, it seems due to Dr. Schliemann to quote his reason for retaining it:—†

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* '*Anatolica;* or the Journal of a Visit to some of the ancient Ruined Cities of Caria, Phrygia, Lycia, and Pisidia. By the Rev. E. J. Davis, H.B.M.'s Consular Chaplain, Alexandria, 1874.' Page 101.

† The *Academy*, Nov. 7th, 1874.

"I identify with the Homeric Ilion the city second in succession from the virgin soil, because only in that city were used the Great Tower, the great Circuit Wall, the great Double Gate, and the ancient palace of the chief or king, whom I call Priam, because he is called so by the tradition of which Homer is the echo; but as soon as it is proved that Homer and the tradition were wrong, and that Troy's last king was called 'Smith,' I shall at once call him so." Those who believe Troy to be a myth and Priam a shadow as unsubstantial as the shape, whose head

"The likeness of a kingly crown had on,"

need not grudge Schliemann the satisfaction of giving the unappropriated *nominis umbra* to the owner of his very substantial Treasure. The name of Priam may possibly even yet be read on the inscriptions, as the names of the Assyrian kings have been read on theirs, or it may be an invention of the bard's; but the name of TROY can no longer be withheld from the "splendid ruins" of the great and wealthy city which stood upon its traditional site—*a city which has been sacked by enemies and burnt with fire.*

Terra-cotta Tablets from the Greek Stratum (1–2 M.).

TABLE OF CONTENTS.

EDITOR'S PREFACE .. .. Page iii

AUTOBIOGRAPHICAL NOTICE OF DR. HENRY SCHLIEMANN .. „ 1

Diagram showing the successive Strata of Remains on the Hill of Hissarlik .. .. „ 10

INTRODUCTION .. .. „ 11

Comparative Table of French Meters and English Measures .. „ 56

WORK AT HISSARLIK IN 1871.

CHAPTER I.

On the Hill of Hissarlik, October 18th, 1871.

The site of ILIUM described — Excavations in 1870: the City Wall of Lysimachus — Purchase of the site and grant of a *firman* — Arrival of Dr. and Madame Schliemann in 1871, and beginning of the Excavations — The Hill of HISSARLIK, the *Acropolis* of the Greek Ilium — Search for its limits — Difficulties of the work — The great cutting on the North side — Greek coins found — Dangers from fever 57

CHAPTER II.

On the Hill of Hissarlik, October 26th, 1871.

Number of workmen — Discoveries at 2 to 4 meters deep — Greek coins — Remarkable terra-cottas with small stamps, probably *Ex votos* — These cease, and are succeeded by the whorls — Bones of sharks, shells of mussels and oysters, and pottery — Three Greek Inscriptions — The splendid panoramic view from Hissarlik — The Plain of Troy and the heroic *tumuli* — Thymbria: Mr. Frank Calvert's Museum — The mound of Chanaï Tépé — The Scamander and its ancient bed — Valley of the Simoïs, and Ruins of Ophrynium 64

CHAPTER III.

On the Hill of Hissarlik, November 3rd, 1871.

Puzzling transitions from the "Stone Age" to a higher civilization — The stone age reappears in force, mixed with pottery of fine workmanship, and

the whorls in great number — Conjectures as to their uses: probably *Ex votos* — *Priapi* of stone and terra-cotta: their worship brought by the primitive Aryans from Bactria — Vessels with the owl's face — Boars' tusks — Various implements and weapons of stone — Hand mill-stones — Models of canoes in terra-cotta — Whetstones — The one object of the excavations, to find TROY .. .. Page 75

CHAPTER IV.

On the Hill of Hissarlik, November 18th, 1871.

Another passage from the Stone Age to copper implements mixed with stone — The signs of a higher civilization increase with the depth reached — All the implements are of better workmanship — Discovery of supposed inscriptions — Further discussion of the use of the whorls — TROY still to be reached — Fine terra-cotta vessels of remarkable forms — Great numbers of stone weights and hand mill-stones — Numerous house-walls — Construction of the great cutting — Fever and quinine — Wounds and arnica 81

CHAPTER V.

On the Hill of Hissarlik, November 24th, 1871.

Interruptions from Rain — Last works of the season, 1871 — The supposed ruins of Troy reached — Great blocks of stone — Engineering contrivances — Excavations at the "Village of the Ilians:" no traces of habitation, and none of hot springs — Results of the excavations thus far — Review of the objects found at various depths — Structure of the lowest houses yet reached — Difficulties of the excavations — The object aimed at — Growth of the Hill of Hissarlik 90

WORK AT HISSARLIK IN 1872.

CHAPTER VI.

expedients — Georgios Photidas — Extent of the Pergamus of Troy — Poisonous snakes, and the snake-weed — The whorls with the central sun, stars, the *suastika*, the *Sôma*, or Tree of Life, and sacrificial altars — The name of Mount Ida, probably brought from Bactria Page 107

CHAPTER VIII.

On the Hill of Hissarlik, May 11th, 1872.

Hindrances through Greek festivals — Thickness of the layers of *débris* above the native rock — Date of the foundation of Troy — Impossibility of the *Bunarbashi* theory — Homeric epithets suitable to Hissarlik — Etymology of Ἴλιος, signifying probably the "fortress of the Sun" — The *Aruna* of the Egyptian records — Progress of the platform, and corresponding excavation on the south — The bulwark of Lysimachus — Ruins of great buildings — Marks of civilization increasing with the depth — Vases, and fragments of great urns — A remarkable terra-cotta — A whorl with the appearance of an inscription 122

CHAPTER IX.

On the Hill of Hissarlik, May 23rd, 1872.

Superstition of the Greeks about saints' days — Further engineering works — Narrow escape of six men — Ancient building on the western terrace — The ruins under this house — Old Trojan mode of building — Continued marks of higher civilization — Terra-cottas engraved with Aryan symbols: antelopes, a man in the attitude of prayer, flaming altars, hares — The symbol of the moon — Solar emblems, and rotating wheels — Remarks on former supposed inscriptions — Stone moulds for casting weapons and implements — Absence of cellars, and use of colossal jars in their stead — The quarry used for the Trojan buildings — "Un Médecin malgré lui." — Blood-letting priest-doctors — Efficacy of sea-baths — Ingratitude of the peasants cured — Increasing heat 131

CHAPTER X.

On the Hill of Hissarlik, June 18th, 1872.

A third platform dug — Traces of former excavations by the Turks — Block of triglyphs, with bas-relief of Apollo — Fall of an earth-wall — Plan of a trench through the whole hill — Admirable remains in the lowest stratum but one — The plain and engraved whorls — Objects of gold, silver, copper, and ivory — Remarkable terra-cottas — The pottery of the *lowest stratum* quite distinct from that of the next above — Its resemblance to the Etruscan, in quality only — Curious funereal urns — Skeleton of a six months' embryo — Other remains in the lowest stratum — Idols of fine marble, the sole exception to the superior workmanship of this stratum — The houses and palaces of the lowest stratum, of large stones joined with earth — Disappearance of the first people with the destruction of their town.

The *second settlers*, of a different civilization — Their buildings of unburnt brick on stone foundations — These bricks burnt by the great conflagration — Destruction of the walls of the former settlers — Live toads

coëval with Troy! — Long duration of the second settlers — Their Aryan descent proved by Aryan symbols — Various forms of their pottery — Vases in the form of animals — The whorls of this stratum — Their interesting devices — Copper weapons and implements, and moulds for casting them — Terra-cotta seals — Bracelets and ear-rings, of silver, gold, and electrum — Pins, &c., of ivory and bone — Fragments of a lyre — Various objects.

The *third stratum:* the remains of an Aryan race — Hardly a trace of metal — Structure of their houses — Their stone implements and terra-cottas coarser — Various forms of pottery — Remarkable *terra-cotta balls* with astronomical and religious symbols — Whorls — Stone weapons — Whetstones — Hammers and instruments of diorite — A well belonging to this people — This third town destroyed with its people.

The *fourth settlers:* comparatively savage, but still of Aryan race — Whorls with like emblems, but of a degenerate form — Their pottery inferior, but with some curious forms — Idols of Athena — Articles of copper — Few stones — Charred remains, indicating wooden buildings — Stone weights, handmills, and knives and saws of flint — With this people the pre-Hellenic ages end — The stone buildings and painted and plain terra-cottas of *Greek Ilium* — Date of the Greek colony — Signs that the old inhabitants were not extirpated — The whorls of very coarse clay and patterns — Well, and jars for water and wine — Proofs of the regular succession of nations on the hill — Reply to the arguments of M. Nikolaïdes for the site at Bunarbashi — The Simoïs, Thymbrius, and Scamander — The tomb of Ajax at In-Tépé — Remains in it — Temple of Ajax and town of Aianteum — Tomb of Achilles and town of Achilleum — Tombs of Patroclus and Antilochus — The Greek camp — The tomb of Batiea or Myrina — Further discussion of the site .. .. Page 143

CHAPTER XI.

On the Hill of Hissarlik, July 13th, 1872.

Increase of men and machinery and cost on the works: but slow progress

Tower of Ilium — Manner of building with stones and earth — A Greek inscription — Remarkable medal of the age of Commodus — Whorls found just below the surface — Terra-cottas found at small depths — Various objects found at the various depths — A skeleton, with ornaments of gold, which have been exposed to a great heat — Paucity of human remains, as the Trojans burnt their dead — No trace of pillars — Naming of the site as "Ilium" and the "Pergamus of Troy" .. .. Page 200

CHAPTER XIII.

Pergamus of Troy, August 14th, 1872.

Intended cessation of the work — Further excavation of the Tower — Layers of red ashes and calcined stones — Objects found on the Tower — Weapons, implements, and ornaments of stone, copper, and silver — Bones — Pottery and vases of remarkable forms — Objects found on each side of the Tower — First rain for four months — Thanks for escape from the constant dangers — Results of the excavations — The site of Homer's Troy identified with that of Greek Ilium — Error of the Bunarbashi theory — Area of the Greek city — Depth of the accumulated *débris* unexampled in the world — Multitude of interesting objects brought to light — Care in making drawings of them all 212

CHAPTER XIV.

Athens, September 28th, 1872.

Return to Troy to take plans and photographs — Damage to retaining walls — The unfaithfulness of the watchman — Stones carried off for a neighbouring church and houses — Injury by rain — Works for security during the winter — Opening up of a retaining wall on the side of the hill, probably built to support the temple of Athena — Supposed *débris* of that temple — Drain belonging to it — Doric style of the temple proved by the block of Triglyphs — Temple of Apollo also on the Pergamus 220

WORK AT HISSARLIK IN 1873.

CHAPTER XV.

Pergamus of Troy, February 22nd, 1873.

Return to Hissarlik in 1873 — Interruptions by holydays and weather — Strong cold north winds — Importance of good overseers — An artist taken to draw the objects found — Want of workmen — Excavations on the site of the Temple — Blocks of Greek sculptured marble — Great increase of the hill to the east — Further portions of the great Trojan wall — Traces of fire — A terra-cotta hippopotamus, a sign of intercourse with Egypt — Idols and owl-faced vases — Vases of very curious forms — Whorls — Sling-bullets of copper and stone — Piece of ornamented ivory belonging to a musical instrument — New cutting from S.E to N.W. — Walls close below the surface — Wall of Lysimachus — Monograms on the stones — An inscription in honour of Caius Cæsar — Patronage of Ilium by the Julii as the descendants of Æneas — Good wine of the Troad 224

CHAPTER XVI.

Pergamus of Troy, March 1st, 1873.

Increased number of workmen — Further uncovering of the great buttress — Traces of a supposed small temple — Objects found on its site — Terra-cotta serpents' heads: great importance attached to the serpent — Stone implements: hammers of a peculiar form — Copper implements: a sickle — Progress of the works at the south-east corner — Remains of an aqueduct from the Thymbrius — Large jars, used for cellars — Ruins of the Greek temple of Athena — Two important inscriptions discussed — Relations of the Greek Syrian Kings Antiochus I. and III. to Ilium .. .. Page 233

CHAPTER XVII.

Pergamus of Troy, March 15th, 1873.

Spring weather in the Plain of Troy — The Greek temple of Athena — Numerous fragments of sculpture — Reservoir of the temple — Excavation of the Tower — Difficulties of the work — Further discoveries of walls — Stone implements at small depths — Important distinction between the plain and decorated whorls — Greek and Roman coins — Absence of iron — Copper nails: their peculiar forms: probably dress and hair pins: some with heads and beads of gold and electrum — Original height of the Tower — Discovery of a Greek house — Various types of whorls — Further remarks on the Greek bas-relief — It belonged to the temple of Apollo — Stones from the excavations used for building in the villages around — Fever 248

CHAPTER XVIII.

Pergamus of Troy, March 22nd, 1873.

Weather and progress of the work — The lion-headed handle of a sceptre — Lions formerly in the Troad — Various objects found — Pottery — Implements of stone and copper — Whorls — Balls curiously decorated —

of Athena — A small cellar — Skeletons of warriors with copper helmets and a lance — Structure of the helmet-crests — Terra-cottas — A crucible with copper still in it—Other objects — Extreme fineness of the engravings on the whorls — Pottery — Stone implements — Copper pins and other objects .. .. Page 276

CHAPTER XXI.

Pergamus of Troy, April 16th, 1873.

Discovery of a street in the Pergamus — Three curious stone walls of different periods — Successive fortifications of the hill — Remains of ancient houses under the temple of Athena, that have suffered a great conflagration — Older house-walls below these, and a wall of fortification — Store, with the nine colossal jars — The great Altar — Objects found east of the Tower — Pottery with Egyptian hieroglyphics — Greek and other terra-cottas, &c. — Remarkable owl-vase — Handle, with an ox-head — Various very curious objects — A statue of one Metrodorus by Pytheas of Argos, with an inscription — Another Greek inscription, in honour of C. Claudius Nero 287

CHAPTER XXII.

Pergamus of Troy, May 10th, 1873.

Interruptions through festivals — Opening of the tumulus of Batiea — — Pottery like that of the Trojan stratum at Hissarlik, and nothing else — No trace of burial — Its age — Further discoveries of burnt Trojan houses — Proof of their successive ages — Their construction — Discovery of a double gateway, with the copper bolts of the gates — The "SCÆAN GATE" of Homer — Tests of the extent of ancient Troy — The place where Priam sat to view the Greek forces — Homer's knowledge of the Heroic Troy only traditional — Description of the gates, the walls, and the "PALACE OF PRIAM" — Vases, &c., found in Priam's house — Copper, ivory, and other implements — The δέπα ἀμφικύπελλα — Houses discovered on the north platform — Further excavations of the city walls — Statuettes and vessels of the Greek period — Top of the Tower of Ilium uncovered, and its height determined — A curious trench in it, probably for the archers — Further excavations at Bunarbashi : only a few fragments of Greek pottery — The site of Ilium uninhabited since the end of the fourth century — The place confused with Alexandria Troas — No Byzantine remains at Hissarlik — Freshness of the Greek sculptures 300

CHAPTER XXIII.

Troy, June 17th, 1873.

Further discoveries of fortifications — The *great discovery of the* TREASURE *on the city wall* — Expedient for its preservation — The articles of the Treasure described — The Shield — The Caldron — Bottle and Vases of Gold — The golden δέπας ἀμφικύπελλον — Modes of working the gold — A cup of electrum — Silver plates, probably the *talents* of Homer — Vessels of Silver— Copper lance-heads : their peculiar form — Copper battle-axes — Copper daggers — Metal articles fused together

by the conflagration — A knife and a piece of a sword — Signs of the Treasure having been packed in a wooden chest — The key found — The Treasure probably left behind in an effort to escape — Other articles found near the Treasure — The thousands of gold jewels found in a silver vase — The two golden diadems — The ear-rings, bracelets, and finger-rings — The smaller jewels of gold — Analysis of the copper articles by M. Landerer — Discovery of another room in the palace containing an inscribed stone, and curious terra-cottas — Silver dishes — Greek terra-cotta figures — Great abundance of the owl-faced vases — Limited extent of Troy — Its walls traced — Poetic exaggerations of Homer — *The one great point of* TROY'S *reality established* — It was as large as the primitive Athens and Mycenæ — The wealth and power of Troy — Great height of its houses — Probable population — Troy known to Homer only by tradition — Question of a temple in Homer's time — Characteristics of the Trojan stratum of remains, and their difference from those of the lowest stratum — The former opinion on this point recalled — Layer of metallic *scoriæ* through the whole hill — Error of Strabo about the utter destruction of Troy — Part of the real Troy unfortunately destroyed in the earlier excavations; but many Trojan houses brought to light since — The stones of Troy not used in building other cities — Trojan houses of sun-dried bricks, except the most important buildings, which are of stones and earth — Extent and results of the excavations — Advice to future explorers — Further excavations on the north side — Very curious terra-cotta vessels — Perforated vases — A terra-cotta with hieroglyphics — Heads of oxen and horses; their probable significance — Idols of the Ilian Athena — Greek and Roman medals — Greek inscriptions — Final close of the excavations; thanksgiving for freedom from serious accidents — Commendations of Nicolaus Saphyros Jannakis, and other assistants, and of the artist Polychronios Tempesis, and of the engineer Adolphe Laurent .. .. Page 321

NOTE A. The river *Dumbrek* is not the Thymbrius, but the Simoïs .. 358

NOTE B. Table of terra-cotta weights found at Hissarlik 359

Terra-cotta Tablets from the Greek Stratum (2 M.).

LIST OF ILLUSTRATIONS.

MAPS AND PLANS.

MAP OF THE PLAIN OF TROY .. .. .. *End of Volume*

PLAN I. ILIUM, THE GRECIAN COLONY .. .. .. ,,

PLAN II. RUINS OF TROY—General Plan of Researches made by Dr. Schliemann in 1870, 1871, 1872, and 1873 .. .. ,,

PLAN III. THE TOWER OF ILIUM AND THE SCÆAN GATE *Page* 306

PLAN IV. TROY AT THE EPOCH OF PRIAM, according to Dr. Schliemann's Excavations 347

PLATES AND CUTS.

PLATE I. VIEW OF THE HILL OF HISSARLIK, CONTAINING THE RUINS OF TROY, FROM THE NORTH, AFTER DR. SCHLIEMANN'S EXCAVATIONS IN 1870, 1871, 1872, 1873 .. *Frontispiece*

The excavation to the left is on the site of the Greek Temple of Apollo, where the splendid metopé of the Sun-God was found. Then follows the great platform and the great trench cut through the whole hill. Still further to the right is the cutting of April, 1870, in continuing which, in June, 1873, the Treasure was discovered.

Three Tablets of Terra-cotta, from the Ruins of Greek Ilium (1–2 M.) XV

Two Inscribed Whorls .. ..)
Three Tablets of Terra-cotta (2 M.) x
No. 1. Fragment of *painted* Pottery, from the lowest stratum ..
No. 2. Small Trojan Axes of Diorite (8 M.) .. .. ..
PLATE II. GENERAL VIEW OF THE TREASURE OF PRIAM .. *To face*
No. 3. Inscribed Terra-cotta Vase from the Palace (8 M.) ..
No. 4. Inscribed Terra-cotta Seal (7 M.) .. .. ..
No. 5. Piece of Red Slate, perhaps a Whetstone, with an Inscription (7 M). .. ..
No. 6. Terra-cotta Vase Cover (8 M.) .. ..
No. 7. Ornamented Ivory Tube, probably a Trojan Flute (8 M.)
No. 8. Piece of Ivory, belonging to a Trojan Lyre with Four Strings (about 8 M.) .. ..
No. 9. Ornamented Piece of Ivory belonging to a Trojan Seven-stringed Lyre (7 M.) .. ..
PLATE III. BLOCK OF TRIGLYPHS, WITH METOPÉ OF THE SUN-GOD. From the Temple of Apollo in the Ruins of Greek Ilium .. .. *To face*
Nos. 10, 11, 12. Terra-cotta Covers of Vases, with the Owl's Face (2, 3, and 7 M.) .. ..
No. 13. Terra-cotta Vase, marked with an Aryan symbol (6 M.)
Nos. 14–30. Rude Idols found in the various Strata (2 to 14 M.).
No. 31. Remarkable Trojan Terra-cotta Vase, representing the Ilian Athena (9 M.) .. ..
No. 32. The largest of the Terra-cotta Vases found in the Royal Palace of Troy. Height 20 inches .. ..
No. 33. Inscribed Trojan Vase of Terra-cotta (8½ M.)

PAGE

PLATE V. VIEW OF THE SOUTH-EASTERN PART OF THE PLAIN OF TROY, FROM THE HILL OF HISSARLIK .. *To face* 70

The foreground shows the excavations in the eastern part of Troy, the foundations of the *Temple*, and the *Altar of Athena;* beyond is the village of *Chiplak;* in the distance the chain of Mount Ida, capped with snow, except in July and August.

No. 41. A great mixing Vessel (κρατήρ) of Terra-cotta (7 M.). 74

Nos. 42–44. Terra-cotta Whorls (7–14 M.) 80

No. 45. Copper Implements and Weapons from the Trojan stratum (8 M.).. 82

No. 46. A Mould of Mica-schist for casting Copper Implements (8 M.) 82

Nos. 47, 48, 49, 50. Stone Instruments from the Trojan stratum (8 M.) 83

Nos. 51, 52. Trojan Terra-cottas (8 M.) 86

No. 53. Small Trojan Vase (9 M.) 87

Nos. 54, 55. Trojan Terra-cotta Vases (8 M.) 87

Nos. 56–61. Stone Implements of the earliest Settlers 94

No. 62. Small Trojan Vase of Terra-cotta, with Decorations .. 95

No. 63. A Trojan Vase-cover of red Terra-cotta (7 M.) 95

No. 64. A stone Implement of unknown use (2 M.) 97

No. 65. A strange Vessel of Terra-cotta (15 M.).. 97

Nos. 66, 67, 68. Trojan Sling-bullets of Loadstone (9 and 10 M.) 101

No. 69. The Foot-print of Buddha 103

No. 70. Large Terra-cotta Vase, with the Symbols of the Ilian Goddess (4 M.) 106

No. 71. A Mould of Mica-schist for casting Ornaments (14 M.) 110

No. 72. Fragment of a large Urn of Terrra-cotta with Assyrian (?) Decorations, from the Lowest Stratum (14 M.) 110

No. 73. Trojan Plates found on the Tower (8 M.) 114

No. 74. Vase Cover with a human face (8 M.) 115

No. 75. A Whorl, with three animals (3 M.) 121

No. 76. Fragment of a Vase of polished black Earthenware, with Pattern inlaid in White (14 M.).. 129

No. 77. Fragment of Terra-cotta, perhaps part of a box (16 M.) 129

No. 78. A Trojan Terra-cotta Seal (8 M.) 130

No. 78* Terra-cottas with Aryan Emblems (4 M.; 3 M.; 5 M.).. 130

No. 79. Fragment of a brilliant dark-grey Vessel (13 M.). ..
No. 80. Whorl with pattern of a moving Wheel (16 M.) ..
No. 81. Whorl with Symbols of Lightning (7 M.) .. ..
No. 82. Two fragments of a great Mould of Mica-schist for casting Copper Weapons and Ornaments (14 M.) .. ..
PLATE VI. TROJAN BUILDINGS ON THE NORTH SIDE, AND IN THE GREAT TRENCH CUT THROUGH THE WHOLE HILL .. *To face*
Nos. 83–91. Objects of Metal from the Lowest Stratum ..
Nos. 92–101. Ivory Pins, Needles, &c. (11–15 M.) .. ..
Nos. 102, 103. Hand Millstones of Lava (14–16 M.) .. ..
No. 104. A splendid Vase with Suspension-rings (15 M.) ..
No. 105. Singular Double Vase (13–14 M.) .. .. ..
No. 106. Black Vase of Terra-cotta (14 or 15 M.) .. ..
No. 107. Funereal Urn of Stone, found on the Primary Rock, with Human Ashes in it (15½ M.) .. ..
No. 108. *a*, Hand Millstone of Lava (15 M.). *b*, Brilliant black Dish with side Rings for hanging it up (14 M.). *c*, *c*, *c*, *c*, Small decorated Rings of Terra-cotta (10–14 M.) .. ..
No. 109. Rude Terra-cotta Idol (14 M.) .. ..
No. 110. Fragment of Pottery, with the *Suastika* (14 M.) ..
Nos. 111, 112. Double-handled Vases of Terra-cotta, from the Trojan Stratum (9 M.) .. ..
No. 113. A Trojan Vase in Terra-cotta of a very remarkable form (8 M.) .. ..
No. 114. Engraved Terra-cotta Vessel in the form of a Pig (or Hedgehog?). 7 M. .. ..

PAGE

No. 128. Terra-cotta Vase of a frequent form (6 M.) 167

No. 129. Terra-cotta Vase of a form frequent at the depth of 3–5 M. 169

No. 130. Terra-cotta Vessel (4 M.) 170

No. 131. A small Terra-cotta Vase with two Rings for suspension (2 M.) 170

Nos. 132, 133. Owl-faced Vase-covers (3 M.) 171

Nos. 134, 135. Two-handled Cups from the upper Stratum (2 M.) 171

No. 136. Terra-cotta Vase (2 M.) 171

No. 137. Perforated Terra-cotta (2 M.) 171

Nos. 138, 139. Deep Plates (*pateræ*) with Rings for suspension, placed (*a*) vertically or (*b*) horizontally (1 and 2 M.) .. 172

Nos. 140, 141. Idols of the Ilian Athena (3 M.) 172

No. 142. Mould in Mica-schist (2½ M.) 173

PLATE VII. A.—MOUND OF IN-TÉPÉ, THE TRADITIONAL TOMB OF AJAX .. .. *To face* 178

Upon the mound, which stands about one-third of a mile from the Hellespont, are seen the remains of a little temple, which was restored by Hadrian. Beneath the ruins is seen a vaulted passage, built of bricks, nearly 4 feet in height and width.

B.—MOUND CALLED THE TOMB OF ACHILLES.

Formerly on the sea-shore, from which it is now divided by a low strip of sand.

No. 143. Terra-cotta Ball, representing apparently the climates of the globe (8 M.) 188

No. 144. Small Terra-cotta Vessel from the Lowest Stratum, with four perforated feet, and one foot in the middle (14 M.) .. 190

Nos. 145, 146. Two little Funnels of Terra-cotta, inscribed with Cyprian Letters (3 M.) 191

No. 147. A Trojan Humming-top (7 M.) 192

No. 148. Terra-cotta Bell, or Clapper, or Rattle (5 M.) 192

No. 149. A Trojan decorated Vase of Terra-cotta (7 M.) .. 199

PLATE VIII. THE GREAT TOWER OF ILIUM, FROM THE S.E. *To face* 200

No. 150. Terra-cotta Vase (7 M.) 208

No. 151. Terra-cotta Vase in the form of an Animal (10 M.) .. 208

No. 152. Terra-cotta Vessel in the shape of a Pig (14 M.) .. 209

No. 153. Skull of a Woman, found near some gold ornaments in the Lowest Stratum (13 M.) 209

No. 154. Block of Limestone, with a socket, in which the pivot of a door may have turned (12 M.) .. ..

No. 155. A Trojan Terra-cotta Vase, with an Ornament like the Greek *Lambda* (8 M.) .. ..

No. 156. Curious Terra-cotta Vessel in the shape of a Mole (Tower: 7 or 8 M.) .. ..

No. 157. A Trojan Dish with side Rings, and Plates turned by the Potter (Tower: 7 M) .. ..

No. 158. A curious Trojan Jug of Terra-cotta (8 M.) .. ..

No. 159. Terra-cotta Image of a Hippopotamus (7 M.) .. ..

No. 160. Remarkable Terra-cotta Vessel in the shape of a Bugle, with three feet (3 M.) .. ..

No. 161. Terra-cotta Vessel with three feet, a handle, and two ears (5 M.) .. ..

No. 162. Terra-cotta Image of a Pig, curiously marked with Stars (4 M.) .. ..

No. 163. One of the largest marble Idols, found in the Trojan Stratum (8 M.) .. ..

No. 164. Terra-cotta Pot-lid, with symbolical marks (6 M.) ..

No. 165. A curious Terra-cotta Idol of the Ilian Athena (7 M.)

No. 166. Pretty Terra-cotta Jug, with the neck bent back (7 M.)

No. 167. Remarkable Trojan Idol of Black Stone (7 M.) ..

Nos. 168, 169. Heads of Horned Serpents (4 M.) .. ..

No. 170. A Serpent's Head, with horns on both sides, and very large eyes (6 M.) .. ..

No. 171. Head of an Asp in Terra-cotta (both sides) (4 M.) ..

PAGE

No. 178. A large Terra-cotta Vase, with two large Handles and two small Handles or Rings (5 M.) 262
No. 179. A remarkable Terra-cotta Ball (6 M.) 264
No. 180. A finely engraved Ivory Tube, probably part of a Flute. Found on the Tower (8 M.) 264
No. 181. Knob for a Stick, of fine marble (3 M.) 265
No. 182. Bone handle of a Trojan Staff or Sceptre (7 M.) .. 265
No. 183. A brilliant Black Vase, with the Symbols of the Ilian Athena, from the Tower (8 M.) 267
No. 184. Vase-cover with Handle in shape of a Coronet (8 M.) 268
No. 185. Vase-cover with a Human Face (Tower, 8 M.) .. 268
No. 186. Flat piece of Gold, in the form of an Arrow-head: from the Tower (8 M.) 268
No. 187. Prettily decorated Tube of Ivory (Tower, 8 M.) .. 268
No. 188. Great Altar for Sacrifices, found in the depths of the Temple of Athena (1-25th of the real size) 278
No. 189. Copper Lance of a Trojan Warrior, found beside his Skeleton (7 M.) 279
No. 190. Skull of a Trojan Warrior, belonging to one of the two Skeletons found in the House on the Tower (7 M.) .. 280
No. 191. The upper and lower pieces of a Trojan Helmet-crest (φάλος) placed together (7 M.) 280
No. 192. Great Copper Ring, found near the Helmet-crest (7 M.) 281
No. 193. An elegant bright-red Vase of Terra-cotta, decorated with branches and signs of lightning, with holes in the handles and lips, for cords to hang it up by (Tower, 8 M.).. 282
No. 194. Terra-cotta Vase. Found on the Tower (8 M.) .. 282
No. 195. Profile of a Vase-cover, with the Owl's Face and Helmet of Athena, in brilliant red Terra-cotta. Found in an urn on the Tower (8 M.) 283
No. 196. An Earthenware Crucible on four feet, *still containing some Copper*. Found on the Tower (7 M.) 283
No. 197. Flower Saucer: the flat bottom ornamented. Found on the Tower (8 M.) 284
No. 198. A piece of Terra-cotta, with two holes slightly sunk in front like eyes, and a hole perforated from side to side (8 M.) 285
No. 199. A remarkable Terra-cotta Vessel on three long feet, with a handle and two small ears (7 M.) 285
No. 200. A beautiful bright-red Terra-cotta Box, decorated with a + and four 卐, and a halo of solar rays (3 M.) 286
Nos. 201, 202. Little Decorated Whorls, of a remarkable shape 286

PAGE

PLATE X. THE TOWER OF ILIUM, SCÆAN GATE, AND PALACE OF PRIAM. Looking North along the cutting through the whole Hill .. .. *To face* 287

PLATE XI. A.—THE EXCAVATIONS IN THE TEMPLE OF ATHENA. From the East .. .. *To face* 290

In front is seen the great Reservoir of the Temple, then the sacrificial Altar. On the right, a stone block of the foundations of the Temple is seen projecting out of the wall of earth. In the background, underneath where the man stands, is the position of the double *Scæan Gate*, of which, however, nothing is here visible. In the left-hand corner is one of the colossal jars, not visible in the next Plate.

B.—THE MAGAZINE, WITH ITS COLOSSAL JARS, in the depths of the Temple of Athena.

Of the *nine* Jars, *six* are visible; a *seventh* (to the right, out of view) is broken. The two largest are beyond the wall of the Magazine, and one of these is seen in the preceding Plate.

No. 203. Fragment of a Terra-cotta Vase, with Egyptian hieroglyphics, from the bottom of the Greek Stratum (2 M.) .. 291

No. 204. A Greek Lamp on a tall foot (2 M.) 292

No. 205. Fragment of a two-horned Serpent (κεράστης), in Terra-cotta (3 M.) 292

No. 206. Terra-cotta Cylinder, 1¼ in. long, with Symbolical Signs (5 M.) 293

No. 207. Terra-cotta Vase with helmeted image of the Ilian Athena (6 M.) 294

PAGE

PLATE XII. THE DOUBLE SCÆAN GATE, PALACE OF PRIAM, AND TOWER OF ILIUM, with the Paved Road leading from the Gate to the Plain from the North West .. .. *To face* 303

Behind the Scæan Gate is seen the Great *Tower of Ilium*, and to the left of it the ruins of the *Palace of Priam*, beneath a mass of later, but still pre-Hellenic, buildings. In the foreground, to the right, is a wall of rubbish, which remains standing; and at the foot of this, where the Greek stands, is the great enclosing Wall of Troy, running in a north-westerly direction from the Scæan Gate. The walls to the left belong to the royal palace, and over this part there are no buildings of the post-Trojan time.

No. 219. Wonderful Vase of Terra-cotta from the Palace of Priam (8 M.) 307

No. 220. Terra-cotta Vase from the House of Priam, with remarkable Decorations (9 M.) 308

No. 221. A Terra-cotta Vase, with two little Ears, and two large perforated Handles, marked with strange characters (5½ M.) 309

No. 222. A splendidly-decorated Vase of Terra-cotta, with three Feet and two Ears. From the Palace (7½ M.) 310

No. 223. A Terra-cotta Vase, with two Ears and covered with dots. From the Palace (7 M.) 310

No. 224. Fine decorated Vase of Terra-cotta, with two Handles and two great upright Wings. From the Palace (7½ M.) .. 311

No. 225. Five Copper Dress Pins, molten together by the conflagration. From the Palace (8 M.) 312

No. 226. Engraved Cylinder of blue Felspar (Palace, 9 M.) .. 312

No. 227. Terra-cotta, engraved with ten rude Owls' Faces (8 M.) 312

No. 228. Terra-cotta Vase, with a curious Decoration. From the upper and later House above the Scæan Gate (6 M.) .. 315

No. 229. Terra-cotta Vase, with four Handles and a Lid (6 M.) 315

No. 230. A great Jug, with Handle and two Ears (6 M.) .. 315

No. 231. A remarkable Terra-cotta Cup (4 M.) 317

Nos. 232, 233. Curious Terra-cottas from the Trojan Stratum (8 and 7 M.) 320

PLATE XIII. THE SCÆAN GATE AND PAVED ROAD, THE TOWER OF ILIUM, CITY WALLS, PALACE OF PRIAM, AND THE WALLS OF A TOWER OF THE GREEK AGE. From the South East *To face* 321

Here we see again the road leading down to the Plain, paved with great slabs of stone. In front of the Gate

PAGE

and Road is seen part of the Great *Tower of Ilium*, and to the right hand, next to and behind the Gate, the ruins of the *Palace of Priam*, partly overladen with later but still pre-Hellenic walls, and partly standing free. Behind, the Scæan Gate appears again, going in a direction W.N.W., then the great City Wall, and upon it, at or about the spot marked *a*, the *Treasure* was found. In the background, where the man stands, is seen a wall built of massive hewn stones, belonging to a Tower of the Greek age. Behind this Tower-wall appear the Plain of Troy, the Hellespont, the island of Imbros, and above this the mountains of Samothrace. At the right extremity of the picture, also, a part of the Plain of Troy is seen through the great cutting, over the ruins of the royal House.

PLATE XIV. THE TREASURE OF PRIAM .. .. .. *To face* 324

No. 234. A Copper Shield with a boss (ἀσπὶς ὀμφαλόεσσα).

No. 235. Great Copper Caldron (λέβης).

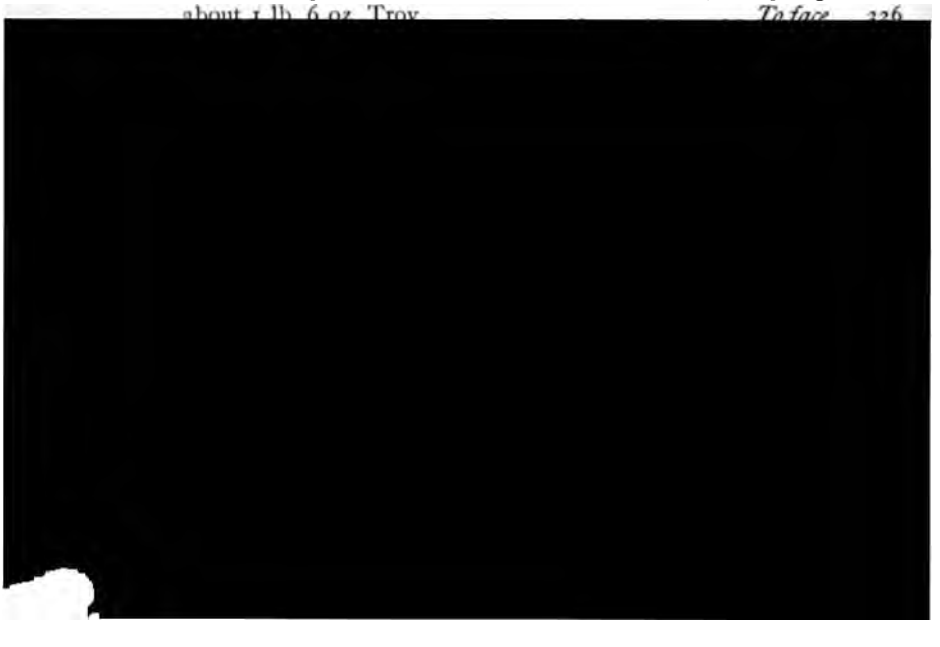
PLATE XV. THE TREASURE OF PRIAM .. .. .. *To face* 325

No. 236. Curious Plate of Copper (perhaps a Hasp of the Chest), with Discs fixed on one end, and a Silver Vase welded to the other by the conflagration.

No. 237. Bottle of pure Gold, weighing about 1 lb. Troy.

No. 238. Cup of pure Gold, pannelled, weighing 7¼ oz. Troy.

PLATE XVI. THE TREASURE OF PRIAM. Remarkable two-handled Cup of Pure Gold (δέπας ἀμφικύπελλον), weighing about 1 lb. 6 oz. Troy *To face* 326



PAGE

No. 250. Silver Vase with part of another Silver Vase welded to it by the fire.

No. 251.. Silver Vase with a quantity of copper fixed to its bottom by the fire.

Nos. 252–256. Trojan Lance-Heads of Copper.—Tr. 330

No. 256. Copper Lance and Battle-Axe welded together by the conflagration. The Pin-hole of the Lance is visible.—Tr. 330

Nos. 257–60. Trojan Battle-Axes of Copper.—Tr. 330

No. 261. Trojan Battle-Axe.—Tr. 331

Nos. 262–268. Nos. 262, 263, 264, 266. Trojan Two-edged Copper Daggers, with hooked Stems that have been fastened into Wooden Handles. No. 264 is doubled up by the conflagration. No. 265, Weapons molten together. No. 267, a Copper Sword-Blade, with a sharp edge at the end. No. 268, a Four-sided Copper Bar, ending in a sharp edge.—Tr. 332

No. 269. Copper Key, supposed to have belonged to the Treasure-chest.—Tr. 333

Nos. 270, 271. Cups of Electrum and Silver. Found in the Palace, near the Treasure, 270 inside 271 334

Nos. 272–275. Pieces of Helmet-crests found in a Room of the Palace 334

Plate XIX. The Treasure of Priam .. .. .. *To face* 335

Nos. 276, 277. The two Golden Diadems (πλεκταὶ ἀναδέσμαι).

Plate XX. The Treasure of Priam. Jewels of Gold *To face* 336

No. 278. Selection from the small Golden Jewels found in the Silver Jug.

No. 279. Golden Fillet (ἄμπυξ), above 18 inches long.

No. 280. Four Golden Earrings, or Tassels (θύσανοι), each 3½ inches long.

No. 281. Six Golden Bracelets welded together by the conflagration.—[Tr.] 337

No. 282. 4610 Small Jewels of Gold.—Tr. 339

No. 283. Terra-cotta Vessel in the shape of a Cask (8 m.). .. 341

No. 284. Large Silver Vase found in the House of Priam (8 m.) 342

No. 285. Splendid Terra-cotta Vase from the Palace of Priam .. 350

No. 286. Curious double-necked Jug (8 m.) 351

No. 287. Terra-cotta Vessel consisting of three Goblets rising out of a tube on three feet (4 m.) 351

No. 288. Terra-cotta Vessel in the form of a Pig (7 m.) .. 352

PAGE
No. 289. A Terra-cotta stamped with Hieroglyphics (1½ M.) .. 352
No. 290. Fragment of a Terra-cotta Vessel, in the shape of a Horse's Head (4 M.) 353
No. 291. An Inscribed Trojan Whorl (8 M.) 363
Nos. 292, 293. Two Trojan Whorls from the same depth (7 M.) with an identical inscription 367
No. 294. The above Inscription developed (7 M.) 368
No. 295. Inscription on a Trojan Seal (7 M.) 368
No. 296. Inscription on a Trojan Whetstone (7 M.) . . 368
No. 297. Inscription on a Trojan Vase from the Palace (8 M.) 369
No. 298. Trojan Whorl, with an Inscription (10 M.) 369
No. 299. The Inscription developed (10 M.) 369
No. 300. Terra-cotta Ball, with an Inscription (4 M.) 372

PLATES XXI.–LII. LITHOGRAPHIC PLATES OF TERRA-COTTA WHORLS AND BALLS.*

(At End of the Volume.)

PLATE XXI. SECTIONS OF WHORLS.

Nos. 301–308. Sections of Plain Whorls (see p. 40) (2–10 M.).
No. 309. Piece of Terra-cotta, of unknown use (see p. 219) (10 M.).
Nos. 310–316. Sections of Decorated Whorls (see p. 60) (3–11 M.).

No. 320. Cross with triple lines; rows of triple dots on arms (see p. 187) (8 M.).

No. 321. Six quadruple segments round the edge (called by Schliemann Rising Suns, by Burnouf Stations of the Sun), alternately with 6 Arrow-heads ↟ (see p. 133) (6 M.).

No. 322. Cross, with curved arms; nail-marked (7 M.)

No. 323D.* Geometric star-like patterns on both sides (5 M.).

No. 324. A Wheel with 13 spokes (sun-rays?), the spaces filled with dots arranged in circles (7 M.).

No. 325. Two zigzag borders round the central Sun (9 M.).

No. 326. For description, see pp. 84, 137 (8½ M.).

No. 327. Five Suns round the central Sun (see p. 136) (7 M.).

No. 328. Five triple "Rising Suns" (comp. No. 321) round a large central Sun (N.B. The *depth* 14 M.).

No. 329. Wheel with spokes on both sides: very small (5 M.).

No. 330. The *Rosa Mystica* (*Qu.*, or an Inscription?) (4 M.).

No. 331D. Geometrical Patterns; Signs of Lightning (?) on one side (8 M.).

No. 332. Four strange characters (*Qu.*, an Inscription?) (9 M.).

PLATE XXIII. TYPICAL PATTERNS OF WHORLS.

No. 333. A Wheel in motion (9 M.).

No. 334. An Inscription (9 M.).

No. 335. A Flower with 10 petals (3 M.).

No. 336. Five Signs, curiously like Roman numerals (8 M.).

No. 337D. A double moving Wheel, see p. 38 (6 M.).

No. 338D *Obv.* Three "flaming Altars" (Schl.) and a group of Stars. *Rev.*, 3 flaming Altars and a 卍 (see p. 162) (6 M.).

No. 339. The *Rosa Mystica* (see p. 160) (8 M.).

Nos. 340–341. Wheels in rapid rotation (see p. 38) (9 and 10 M.).

No. 342. A series of Strokes (7 M.).

No. 343. Various marks. The dots are perhaps for stars (10 M.).

No. 344. Geometric Pattern, like a Gothic quatrefoil (7 M.).

No. 345. Concentric Circles, and 4 wave-like sets of Lines (3½ M.).

No. 346. Three curious Signs (*Qu.*, letters?) (7 M.).

No. 347. A cable-like Wreath (6 M.)

No. 348. Four concentric Circles and 6 quadruple "Rising Suns" (8 M.).

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* D for *double*, denotes a whorl decorated on both sides.

PLATE XXIV. WHORLS WITH SUASTIKAS, &C.

No. 349. One of the thin round Terra-cottas, with 2 holes, found chiefly in the Greek Stratum (see p. 65). The 卐 on this example forms a link with the Whorls of the lower strata. Of impure yellow earth (2 M.).

No. 350. Three curved 卐. Grey earth (4 M.).

No. 351. Four 卐 in a zigzag Border. "The 4 sacrifices of the month or of the year."—B. Fine yellow earth; polished; good work.†

No. 352. Three curved 卐. Grey; polished; good work (4 M.).

No. 353. An Inscription. Dull brown; polished; very coarse (9 M.).

No. 354. Three Rising Suns, and a Sign like a letter (?). Brown; polished; the lines white (5 M.).

No. 355. Three 卐. "The 3 sacrifices."—B. (M.).

PLATE XXV. WHORLS WITH 卐 AND INSCRIPTIONS.

No. 356. Four 卐 of peculiar form. "The 4 sacrifices of the month or of the year."—B. Dark grey; polished; beautiful work (7 M.).

No. 357. Apparently an Inscription. Blackish earth; burnt; badly kneaded).

No. 358. Two 卐 and 2 Crosses. Grey; very rude material and work (7 M.).

No. 359. Six 卐. Black; polished; lines white).

No. 360. An Inscription (4 M.).

PLATE XXVII. ARYAN EMBLEMS AND AN INSCRIPTION.

No. 365. Three triple "Rising Suns" and a 卐. Fine black earth; polished; beautiful work (6 M.).

No. 366. Similar design. Greyish yellow (6 M.).

No. 367. Four Hares, representing the 4 weeks of the month, or the 4 quarters of the year (see p. 136). Fine black earth (6 M.).

No. 368. Four curved Crosses round the rim. "The 4 sacrifices of the month or year."—B. Black; polished; good work; lines white (3½ M.)

No. 369. An Inscription from the Trojan Stratum. Dark grey; very coarse (10 M.). (See Appendix, p. 369.)

No. 370. Divided into 2 fields by a line through the centre. In the left is a 卐 with 2 spots ("the sun and full moon."—B.) and dots (stars?—'the 7 at the top being the Great Bear."—B.). In the right M. Burnouf finds 28 strokes for the days of the month. Black; polished; lines white. N.B. Much worn by rubbing, especially on the under side (10 M.).

No. 371. "At top, 4 Crosses for the 4 weeks, with a 卐, or sacrifice, set on fire by a flash of lightning; below, the 4 great Sacrifices."—B. Greyish yellow; polished (4 M.).

PLATE XXVIII. RELIGIOUS AND ASTRONOMICAL EMBLEMS.

No. 372. Three 卐 (2 of a curious form), and 3 "flaming Altars" (SCHL.). Grey; polished; lines white (6 M.).

No. 373. "The 3 stations of the Sun, or 3 mountains, with the 4 sacrifices of the year or the month round the circle of the Sun."—B. Yellow; polished; rudely kneaded; the lines scratched in with a fine point.

No. 374. "Divided into 2 fields by 2 points. *Left:* the mountain of the E., the Sun, and 卐. *Right:* the mountains of the N. and W. and the full moon. The ring is the circle of the year."—B. Grey; polished. Worn all round by circular friction (7 M.).

No. 375. Various Symbols. Blackish yellow; very coarse. Worn all round and on the under side.

No. 376. The Sôma Tree, or Tree of Life, a 卐, with Strokes indicating numbers 2, 4, and 8. Yellow.

No. 377. Four Hares (the 4 quarters of the moon) round a Ring (the circle of the year). Iron grey; polished (see p. 136) (10 M.).

No. 378D. *Obv.*, an Inscription (?). *Rev.*, a sort of Wheel. Part of the edge worn down to a straight line (9 M.).

PLATE XXIX. ANIMALS AND OTHER SYMBOLS.

No. 379D. *Obv.*, three Crosses (one with 4 nail-marks ⁜). *Rev.* (see the developed pattern): "*a.* 3 Antelopes with dots (stars); *b.* The Great Bear; *c.* Lightning, or Water; *d.* Five 卍"—(B.) Grey; polished (see p. 136) (4 M.).

No. 380. "Two Antelopes, the halves of the month (*quinzaines*), round the circle of the year."—B. Black; polished (see p. 135) (6 M.)

PLATE XXX. ANIMALS AND THE PRAYING MAN.

No. 381. A Hare and 2 Antelopes (*i. e.* the moon and the 2 winds prevailing in the 2 half-months) round the circle of the year. Grey. (7 M.).

No. 382. The same subject (see p. 120). Grey; polished (3 M.). (*Observe the different depths*).

No. 383. Three Animals, with *a Man in the attitude of Prayer;* "the holy sacrifice of the full moon" (B.); but see Schliemann's explanation pp. 135, 137 (7 M.).

No. 384. The same subject as Nos. 381 and 382. Black; polish lost. *Part of the edge worn flat* (7 M.).

PLATE XXXI. ANIMALS AND OTHER SYMBOLS.

No. 385. Same subject as Nos. 381, 382, 384, but still ruder. Grey; polished; very coarse (8 M.).

No. 386. Same subject. Yellow; polished; rude work (7 M.).

No. 387. Scroll Pattern round large, deep-sunk centre. Dark grey; polished (10 M.).

No. 393. Six triple Rising Suns, with dots (5, 6, or 7) in the middle space. Yellow; polished; pattern white (9 M.).

No. 394. Three 卍 (one with 2 dots), and a Sign (like a letter or letters?). Yellow; polished; pattern white.

No. 395. An ornamental Quatrefoil. Brown; polished; pattern white, good work (4½ M.).

No. 396D. A Geometrical Pattern, composed of triple segments slightly varied on two sides. Yellow; polished; patterns white (8 M.).

PLATE XXXIII. THE SÔMA TREE AND OTHER SYMBOLS.

No. 397. A sort of 5-armed Star, or 5 triple "mountains (B.)," alternately with 5 triple Signs of Lightning. The ring of beads round the centre is remarkable. Black; pattern white; fine work. Worn all over by rubbing.

No. 398. Three triple Rising Suns and a Sôma Tree (see p. 119). Black; polished. The hole is conical (9 M.).

No. 399. Five Sôma Trees and a triple Rising Sun.

No. 400. Three Sôma Trees and 2 other Signs. Dark brown; polished. Has been used (5 M.).

No. 401. Four Sôma Trees forming a Cross (see p. 119). Black; polished; pattern white. Slightly worn.

No. 402D *Obv.* Eight irregular Rising Suns (double or quadruple).* *Rev.* Twelve Sôma Trees radiating from the centre (see p. 187). Greyish yellow; highly polished; rude work. The tip of the back worn by rubbing (10 M.).

PLATE XXXIV. SÔMA TREES, FLAMING ALTARS, ETC.

No. 403. A Sôma Tree and 4 Rising Suns (3 triple and 1 double). Grey; polished. Worn all over (see p. 187) (5 M.)

No. 404. Six Sôma Trees, pointing alternately to and from the centre (see p. 269). Black; polished; lines white; rude (7 M.).

No. 405. Five 卍 and an Altar with 3 flames (?). Hole conical. Yellowish; polished. Worn on under side (5½ M.).

No. 406. Four Rising Suns and a flaming Altar. Grey; polished. Worn on under side (5 M.).

No. 407. Four Rising Suns and 2 Altars. Hole conical. Small size. Black; polished; lines white. Worn on under side (8 M.).

No. 408. Three Rising Suns and an Altar. Small size. Very black earth, like trachyte; lines white. Worn (5 M.).

No. 409. Similar Pattern on a larger Whorl. Grey. Hole conical.

* One of numerous examples showing the workman's *free hand*; he has not measured his spaces with any exactness.

PLATE XXXV. FLAMING ALTARS AND SÔMA TREES.

No. 410. Four Sôma Trees, forming a Cross (see p. 119). Ashy grey ; unpolished ; coarse (9 M.).

No. 411. Three Altars and 3 irregular 卍. Brownish grey ; polished ; pattern yellow (6 M.).

No. 412. Four Altars (?) arranged in a Cross, with dots (stars ?). Dark grey ; very coarse.

No. 413. Six flaming Altars. Black ; polished ; lines white ; good work (7 M.).

No. 414. Four Altars forming a Cross (see p. 121). Yellow ; polished (8 M.).

No. 415. Five Altars. Small size. Black ; pattern white ; work good.

PLATE XXXVI. VARIOUS PATTERNS.

No. 416. Three flaming Altars. Grey ; pattern white ; good (8 M.).

No. 417. A double Circle, with 5 broad arms ; on each a Sign of Lightning. Brownish yellow ; slightly polished ; well made. Hole conical (4 M.).

No. 418. Five Signs (*Qu.*, letters ?). Brown.

No. 419. A five-armed irregular Cross, with 2 卍 and 2 Signs of Lightning. Yellowish ; coarsely kneaded (7 M.).

No. 420. Two triple Rising Suns and a double zigzag (lightning) round more than half the circumference. A beautiful black ; polished ; lines white. A little worn on under side.

No. 421D. *Obv.* Irregular cross with zigzags (Signs of Lightning) on arms. *Rev.* A curious Geometric Pattern (7 M.).

No. 429. Very irregular Star with numerous dots. Red earth; coarse; very bad work.

No. 430. Two Spots between 2 large double Arcs. Yellow; polished (8 M.).

No. 431. (See the Plate.) Brownish yellow; pattern white (5 M.)

No. 432. Zigzag Pattern round edge (see the Plate). Brown; very good.

PLATE XXXIX. INSCRIPTION, AND OTHER PATTERNS.

No. 433. Fine six-pointed Star. Yellow; polished; pattern white.

No. 434. Three curious Figures round margin. (See the Plate.) Greyish yellow; fair work (7 M.).

No. 435. An Inscription. Brown; very coarse (5 M.).

No. 436. Three double Rising Suns and an Altar (?). Coarse.

No. 437. Three |'s alternately with 3 V's. Much worn all round* (5 M.).

No. 438. Looks like an Inscription. Brown. Worn at the ends.

PLATE XL. VARIOUS PATTERNS.

No. 439. Four triple Rising Suns and an Altar (?) (5 M.).

No. 440. A fine double Polygonal Star, with dots in the space between. Brown; pattern white (10 M.).

No. 441. Three triple Rising Suns and an Arrow-head \|/. Light brown; polished (7 M.).

No. 442. Signs like Figures round a broad, deep centre.

No. 443. Two double Rising Suns and 5 large Spots (*Qu.*, the 5 planets?) Dark brown; fine; polished.

No. 444. A plain Whorl, modelled into a sort of seven-pointed Star. Brownish black (8 M.).

No. 445D. A very curious Pattern on both sides (see the Plate). Black; polished; good work.

PLATE XLI. VARIOUS IRREGULAR PATTERNS.

No. 446. Sun with rays, Altar, 卐 through a sun or moon (?), &c. M. Burnouf explains the 3 dots |:| as denoting "royal majesty"

No. 447. Curious composition of 卐, long lines, and short lines. Yellowish earth; badly modelled (9 M.).

No. 448D. Curious Pattern on both sides (see Plate). Brown; polished (9 M.).

* This is rather suggestive of a *tectotum*.

No. 449D. *Obv.* Eleven straight Rays, with rows of dots between, and 1 zigzag Ray. *Rev.* 2 Rising Suns and a 卐. Grey; not polished. N.B. "The edge cut all round by the friction of thread, like the kerbstone of a well by the cord"—(B.) (8 M.).

No. 450D. *Obv.* 3 double Rising Suns and 2 curious signs ⊣⊢. *Rev.* 3 concentric Circles, with short Rays between the first and second. Grey; polished; good work.

PLATE XLII. VARIOUS REMARKABLE PATTERNS.

No. 451D. *Obv.* Pentagonal Star, with Spots ⊙, and dots, and raised rim with dots round the hole. *Rev.* Sun, with 5 hooked rays (?) and 3 Spots ⊙. Yellow earth; badly kneaded; not polished.

No. 452. A pair of ∫'s and a pair of ⩓ round a deep broad centre. Reddish earth, very badly kneaded; polished.

No. 453. Two small Segmental Curves, filled with dots, and 2 Signs like ladders. Brown; polished (6 M.).

No. 454. Two quadruple Rising Suns, a + with curved arms, several dots, and a curious cruciform Sign. Fine brown earth (4 M.).

PLATE XLIII. VARIOUS PATTERNS.

No. 455D. Four Triangles on each side. Fine black earth; polished (6 M.).

No. 456. Six groups of Stars (?). A dirty yellowish brown; rudely kneaded. Wheel-shaped, with lines on the broad flat edge.

No. 457. Dots and strange Characters (*Qu.*, letters?). Blackish earth; burnt; pattern white (?).

No. 458. Four Arrow-heads ⩓ alternately with 4 Spots ⊙. Brown-

No. 465D. *Obv.* Two very rude Quadrupeds.* *Rev.* Three Signs (*Qu.*, letters?). Coarse grey earth; very bad work. Worn (3½ M.).

PLATE XLV. VARIOUS PATTERNS.

No. 466. Six irregular V-shaped Signs. Bright brown (8 M.).

No. 467. Three Characters (*Qu.*, letters?) and 5 Spots ⊙. Yellowish; polished; rude (5 M.).

No. 468. Five rude Birds, perhaps the Falcon of the Aryan mythology (see pp. 120, 135). Reddish yellow; burnt.

No. 469. Three strange Characters (*Qu.*, letters?) with Spots (stars?). Brown; polished; badly kneaded. Hole badly made.

No. 470. Cross of a curious form. Rose-coloured earth; good. Looks *new*, though from the *lowest Stratum* (12 M.).

No. 471. Four triple Rising Suns, and a + with a Spot ⊙. Black; pattern white; good (7 M.).

PLATE XLVI. VARIOUS REMARKABLE PATTERNS.

No. 472. An Inscription. Greyish; polished; letters white; coarse (6 M.).

No. 473. Two Circles of Strokes and Dots. Reddish yellow; very coarse (4 M.).

No. 474. Five strange Characters. Brown-black; polish gone. Irregularly worn all round (4 M.).

No. 475. (See the Plate.) Black; polished; bad work (8 M.).

No. 476. Four double Rising Suns and a Sign (*Qu.*, letter?). Black; polished; pattern white (7 M.).

PLATE XLVII. GEOMETRIC AND OTHER PATTERNS.

No. 477D. *Obv.* A six-pointed Star, with circle in middle and triple edges (or 6 such figures as Burnouf calls *mountains* in other cases).† *Rev.* A Circle with 8 rays, alternately double and triple. Black.

No. 478. The *Rosa Mystica*, as a cinquefoil, with rows of triple dots along each petal (see p. 160). Dark grey; polished; good. N.B. Completely worn by circular friction (7 M.).

No. 479. Six Spots round the centre, enclosed by a Circle with crooked rays (*Qu.*, the moon and 5 planets within the revolving sphere of heaven?). Grey; coarse.

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* An example of one of the rudest attempts at drawing from the *latest* pre-Hellenic stratum; some equally rude figures are scratched on a wall at Pompeii.

† This is an example of many cases, in which the pattern may be viewed quite differently, according as we start from the centre or from the circumference.

No. 480. Four quadruple Zigzags (Signs of Lightning), arranged as a Cross (see p. 160). Very beautiful black; polished; pattern very white; angles very sharp; very hard. One of the finest Trojan Whorls (10 M.).

No. 481D. Five parallel Circles of quadruple lines on the edge and both faces, probably meant for a wheel in rapid motion (comp. Plate XXIII. No. 340). "The exactly parallel circular lines were marked on the moist clay with a *comb*, as is proved by the way in which their extremities cross at the point of junction."—B.

PLATE XLVIII. VARIOUS PATTERNS.

No. 482. Three 卐 (Sacrifices) and 2 obscure Signs.—B. (Comp. Plate XXII. No. 326, and Schliemann's description, pp. 84 and 137.) Reddish; very rude; kneaded. The *axes* of the Whorl and the hole do not coincide (8½ M.).

No. 483. A 卐 and rude Figures (*Qu.*, animals or letters?). Grey; polished; very coarse (4 M.)

No. 484. A Terra-cotta Tripod. The top (in the upper figure) shews the Tree of Life (in the middle) attacked by the Caterpillar (on the right), the symbol of the Powers of Mischief. On the left is a 卐 and other Marks. Grey; polished; work rude (3 M.).

No. 485. Three concentric rows of Dots: 12 in the inner, 14 in the next, and 17 in the outer border, which is marked by a Circle and divided by straight lines. M. Burnouf explains the inner ring of dots as the 12 months of the year, and the 2 outer as referring to the days and lunations (8 M.).

PLATE XLIX. A BALL AND WHORLS.

PLATE L. REMARKABLE BALL AND WHORL.

No. 491. Six faces of a Terra-cotta Ball, with Celestial Emblems, fully described at p. 168. "One of the most interesting objects in the whole collection" (SCHL.) Yellowish earth (5 M.)

No. 492. A Whorl, so nearly globular as to form a transition to the Balls. Triple lines and rows of dots round the border; curious characters (*Qu.*, letters?) round the whole. Reddish yellow; badly kneaded; not polished.

PLATE LI. A BALL AND INSCRIBED WHORLS.

No. 493. A Ball, with its 8 segments developed, fully described at pp. 167–8. Black earth; polished; patterns white (5 M.).

No. 494. Whorl with an Inscription. Blackish earth; badly kneaded. (M. Burnouf pronounces this and No. 496 to be by the same workman as the Whorl with the developed pattern (Plate XXV. No. 357) and the two Inscribed Vases, No. 3, p. 23, and No. 33, p. 50) (7 M.)

No. 495D. A small Whorl, with cruciform Pattern on both sides (see Plate). Light brown (M.).

No. 496. Very important Inscribed Whorl. The Inscription is the same as that shown in No. 115, p. 161. (See Appendix, pp. 366–368.) Red coarse earth; not polished; work very coarse (7 M.).

PLATE LII. TWO REMARKABLE TROJAN BALLS.

No. 497. Ball with an Inscription; showing 3 Faces and the Pattern developed. Brownish grey; polished; pattern white (8 M.).

No. 498. Ball, with its 8 segments developed, representing the starry heavens, with a 卐 and the Tree of Life. Yellow earth; badly modelled (8 M.). (Dr. Schliemann has 25 Terra-cotta Balls, most of them covered with dots, and representing stars, with or without lines denoting the equator, the colures, the zones, and the ecliptic.)

Piece of a Terra-cotta Dish, with the Owl's Face. (14 M.)

AUTOBIOGRAPHICAL NOTICE

OF

DR. HENRY SCHLIEMANN.

FROM THE PREFACE TO HIS

'ITHACA, THE PELOPONNESUS, AND TROY.'

AUTOBIOGRAPHICAL NOTICE.

WHEN, in the year 1832, at Kalkhorst, a village in Mecklenburg-Schwerin, at the age of ten, I presented my father, as a Christmas gift, with a badly written Latin essay upon the principal events of the Trojan war and the adventures of Ulysses and Agamemnon, little did I think that, six-and-thirty years later, I should offer the public a work on the same subject, after having had the good fortune to see with my own eyes the scene of that war, and the country of the heroes whose names have been immortalized by Homer.

As soon as I had learnt to speak, my father related to me the great deeds of the Homeric heroes. I loved these stories; they enchanted me and transported me with the highest enthusiasm. The first impressions which a child receives abide with him during his whole life; and, though it was my lot, at the age of fourteen, to be apprenticed in the warehouse of E. Ludwig Holtz in the small town of Fürstenberg, in Mecklenburg, instead of following the scientific career for which I felt an extraordinary predisposition, I always retained the same love for the famous men of antiquity which I had conceived for them in my first childhood.

In the small shop where I was employed for five years and a half, first by Mr. Holtz and then by his successor, the excellent Mr. Th. Huckstädt, my occupation consisted in retailing herrings, butter, brandy, milk and salt, grinding potatoes for the still, sweeping the shop, and so forth. I only came into contact with the lower classes of society.

From five in the morning to eleven at night I was engaged in this work, and had not a moment free for study. Moreover I rapidly forgot the little that I had learnt in my childhood, but I did not lose the love of learning; indeed I never lost it,

and, as long as I live, I shall never forget the evening when a drunken miller came into the shop. He was the son of a Protestant clergyman in a village near Teterow, and had almost concluded his studies at the Gymnasium when he was expelled on account of his bad conduct. To punish him for this, his father made him learn the trade of a miller. Dissatisfied with his lot, the young man gave himself up to drink, which however had not made him forget his Homer; for he recited to us about one hundred lines of the poet, observing the rhythmic cadence. Although I did not understand a word, the melodious speech made a deep impression upon me, and I wept bitter tears for my unhappy fate. Thrice I got him to repeat to me those god-like verses, paying him with three glasses of brandy, which I bought with the few pence that made up my whole fortune. From that moment I never ceased to pray God that by His grace I might yet have the happiness to learn Greek.

There seemed, however, no hope of my escaping from the sad and low position in which I found myself. And yet I was released from it as if by a miracle. In lifting a cask too heavy for me, I hurt my chest; I spat blood and was no longer able to work. In despair I went to Hamburg, where I succeeded in obtaining a situation as cabin-boy on board of a ship bound for La Guayra in Venezuela.*

On the 28th of November, 1841, we left Hamburg, but on the 12th of December we were shipwrecked in a fearful storm

excellent Consul-General of the North German Confederation in Amsterdam, Mr. W. Hepner, who procured me a situation in the office of Mr. F. C. Quien.

In my new situation my work consisted in stamping bills of exchange and getting them cashed in the town, and in carrying letters to and from the post-office. This mechanical occupation suited me, for it left me time to think of my neglected education.

First of all I took pains to learn to write legibly, and then, in order to improve my position, I went on to the study of the modern languages. My annual salary amounted only to 800 francs (32*l.*), half of which I spent upon my studies; on the other half I lived, miserably enough to be sure. My lodging, which cost 8 francs a month, was a wretched garret without a fire, where I shivered with cold in winter and was scorched with the heat in summer; my breakfast consisted of rye-meal porridge, and my dinner never cost more than a penny farthing. But nothing spurs one on more to study than misery and the certain prospect of being able to release oneself from it by unremitting work. I applied myself with extraordinary diligence to the study of English. Necessity showed me a method which greatly facilitates the study of a language. This method consists in reading a great deal aloud, without making a translation; devoting one hour every day to writing essays upon subjects that interest one, correcting these under a teacher's supervision, learning them by heart, and repeating in the next lesson what was corrected on the previous day. My memory was bad, since from my childhood it had not been exercised upon any object; but I made use of every moment, and even stole time for study. I never went on my errands, even in the rain, without having my book in my hand and learning something by heart; and I never waited at the post-office without reading. By such means I gradually strengthened my memory, and in half a year I had succeeded in acquiring a thorough knowledge of the English language. I then applied the same method to the study of French, the difficulties of which I overcame likewise in another six months. These persevering and excessive studies had in the course of one year strengthened my memory to such a degree that the study of Dutch, Spanish, Italian, and Portuguese appeared very easy, and it did not

take me more than six weeks to write each of these languages and to speak them fluently. But my passion for study caused me to neglect my mechanical occupation in the office, especially when I began to consider it beneath me. My principals would give me no promotion; they probably thought that a person who shows his incapacity for the business of a servant in an office is therefore quite worthless for any higher duties.

At last, through the intercession of my worthy friends, L. Stoll of Mannheim and Ballauff of Bremen, I had the good fortune to obtain a situation as correspondent and book-keeper in the office of Messrs. B. H. Schröder and Co. in Amsterdam, who engaged me at a salary of 1200 francs (48*l.*); but when they saw my zeal, they paid me 2000 francs as an encouragement. This generosity, for which I shall ever be grateful to them, was in fact the foundation of my prosperity; for, as I thought that I could make myself still more useful by a knowledge of Russian, I set to work to learn that language also. But the only Russian books that I could procure were an old grammar, a lexicon, and a bad translation of Telemachus. In spite of all my inquiries I could not find a teacher of Russian, for no one in Amsterdam understood a word of the language: so I betook myself to study without a master, and, with the help of the grammar, I learnt the Russian letters and their pronunciation in a few days. Then, following my old method, I began to write short stories of my own composition and to learn them off by heart. As I had

weeks I wrote my first Russian letter to a Russian in London, and I was able to converse fluently in this language with the Russian merchants who had come to Amsterdam for the indigo auctions.

After I had concluded my study of the Russian language, I began to occupy myself seriously with the literatures of the languages which I had learnt.

In the beginning of the year 1846, my worthy principals sent me as their agent to St. Petersburg, where a year later I established a mercantile house on my own account; but, during the first eight or nine years that I spent in Russia, I was so overwhelmed with work that I could not continue my linguistic studies, and it was not till the year 1854 that I found it possible to acquire the Swedish and Polish languages.

Great as was my wish to learn Greek, I did not venture upon its study till I had acquired a moderate fortune; for I was afraid that this language would exercise too great a fascination upon me and estrange me from my commercial business. When, however, I could no longer restrain my desire for learning, I at last set vigorously to work at Greek in January 1856; first with Mr. N. Pappadakes, and then with Mr. Th. Vimpos of Athens, always following my old method. It did not take me more than six weeks to master the difficulties of modern Greek, and I then applied myself to the ancient language, of which in three months I learned sufficient to understand some of the ancient authors, and especially Homer, whom I read and re-read with the most lively enthusiasm.

I then occupied myself for two years exclusively with the ancient Greek literature; and during this time I read almost all the old authors cursorily, and the Iliad and Odyssey several times.

In the year 1858 I travelled to Sweden, Denmark, Germany, Italy and Egypt, where I sailed up the Nile as far as the second cataract in Nubia. I availed myself of this opportunity to learn Arabic, and I afterwards travelled across the desert from Cairo to Jerusalem. I visited Petra, traversed the whole of Syria, and in this manner I had abundant opportunity of acquiring a practical knowledge of Arabic, the deeper study of which I afterwards continued in St. Petersburg. After leaving Syria, I visited Athens in the summer

of 1859, and I was on the point of starting for the island of Ithaca when I was seized with an illness which obliged me to return to St. Petersburg.

Heaven had blessed my mercantile undertakings in a wonderful manner, so that at the end of 1863 I found myself in possession of a fortune such as my ambition had never ventured to aspire to. I therefore retired from business, in order to devote myself exclusively to the studies which have the greatest fascination for me.

In the year 1864 I was on the road to visit the native island of Ulysses and the Plain of Troy, when I allowed myself to be persuaded to visit India, China and Japan, and to travel round the world. I spent two years on this journey, and on my return in 1866 I settled in Paris, with the purpose of devoting the rest of my life to study, and especially to archæology, which has the greatest charm for me.

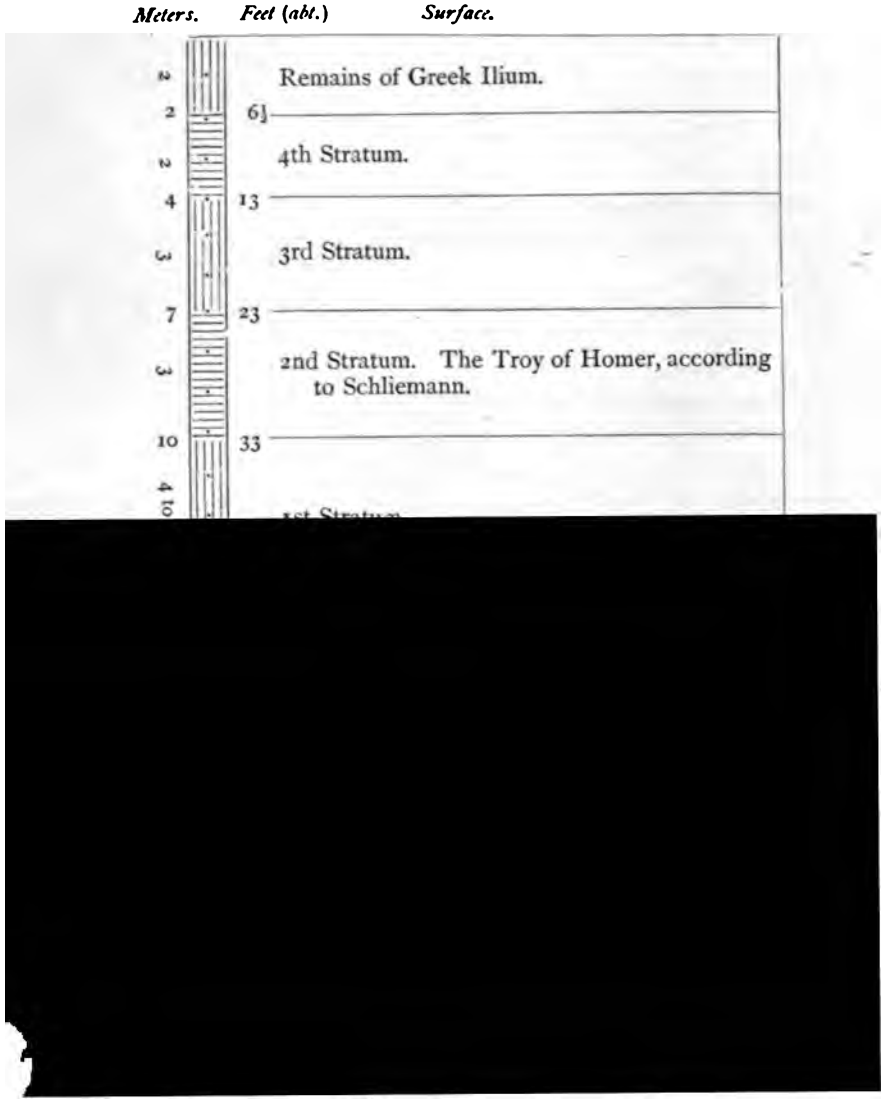
At last I was able to realize the dream of my whole life, and to visit at my leisure the scene of those events which had such an intense interest for me, and the country of the heroes whose adventures had delighted and comforted my childhood. I started, therefore, last summer, and visited in succession the places which still possess such living poetic memorials of antiquity.

I had not, however, the ambition of publishing a work on the subject; this I only decided upon doing when I found what errors almost all archæologists had spread about the site

INTRODUCTION.

DIAGRAM

SHEWING THE SUCCESSIVE *STRATA* OF REMAINS ON THE HILL OF HISSARLIK.



INTRODUCTION.

CONTENTS.

Form of the Work — Changing and progressive opinions due to the Novelty of the Discoveries — Chronology — Duration of the GREEK ILIUM — Four successive strata of remains beneath its ruins on the hill of *Hissarlik* — Remains of the *Earliest Settlers*, who were of the Aryan race — Symbols on their terra-cottas — The *Second Settlers*, the Trojans of Homer — The Tower of Ilium, Scæan Gate, and City Walls, covered with the ashes of a conflagration — Skeletons denoting a bloody war — The Royal Treasure — Small extent of Troy: not beyond the hill of Hissarlik — Poetical exaggerations of Homer, who only knew it by tradition — The city was wealthy and powerful, though small — Stone weapons and implements, *not* denoting the "Stone Age" — Contemporaneous use of copper, silver, and gold, for tools, weapons, vases, and ornaments — Inscriptions proving the use of a written language — Splendid remains of pottery — Symbols proving that the Trojans were an Aryan race — Their buildings of stone and wood — Antiquity of the City — The *Third Settlers*, also of the Aryan race — Their pottery coarser — Musical instruments — Their mode of building — Fewer implements of copper, but those of stone abundant — The *Fourth Settlers*, of the Aryan race, built the *Wooden Ilium* — Their progressive decline in civilization — Some copper implements, with tools and weapons of stone — The *Greek Ilium* built about B.C. 700: ceased to exist in the fourth century after Christ — Evidence of Coins — No Byzantine remains — The Walls of Lysimachus — Metals found in the various strata: copper and bronze, silver, gold, lead: no iron or tin — Sculptures of the Greek age — Metopé of the Sun-God — Images of the owl-faced Athena common to all the pre-Hellenic strata: their various forms — The perforated whorls of terra-cotta, with Aryan symbols — The sign of the *Suastika* 卐 — The plain whorls — Discussion of the site of Troy — Traditionally placed on that of the Greek Ilium — View of Demetrius and Strabo refuted — Opinion of Lechevalier for Bunarbashi, generally accepted, but erroneous — No remains of a great city there — The site really that of Gergis — Fragments of Hellenic pottery only —

The three so-called tombs of heroes also Greek — Proposed sites at Chiplak and Akshi-Koï refuted by the absence of remains — Modern authorities in favour of Hissarlik — Ancient types of pottery still made in the Troad — Covers with owl-faces, and vases with uplifted wings — Colouring materials of the pottery — The inscriptions — The author's relations with the Turkish Government — Professor Max Müller on the owl-headed goddess — Some probable traces of another settlement between the fourth pre-Hellenic people and the Greek colonists.

THE present book is a sort of Diary of my excavations at Troy, for all the memoirs of which it consists were, as the vividness of the descriptions will prove, written down by me on the spot while proceeding with my works.*

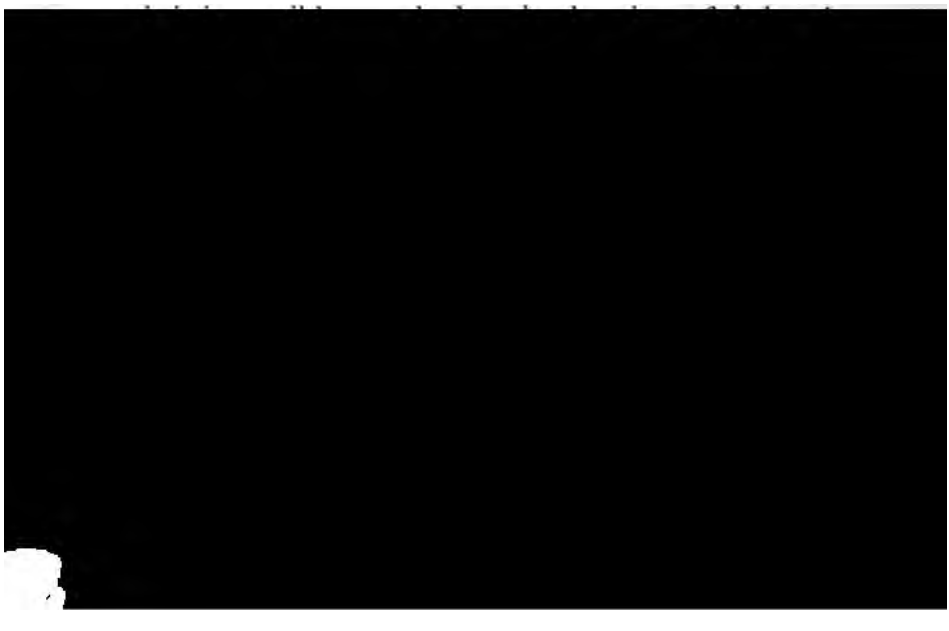
If my memoirs now and then contain contradictions, I hope that these may be pardoned when it is considered that I have here revealed a new world for archæology, that the objects which I have brought to light by thousands are of a kind hitherto never or but very rarely found, and that consequently everything appeared strange and mysterious to me. Hence I frequently ventured upon conjectures which I was obliged to give up on mature consideration, till I at last acquired a thorough insight, and could draw well-founded conclusions from many actual proofs.

One of my greatest difficulties has been to make the enormous accumulation of *débris* at Troy agree with chron-

built Ilium during the dominion of the Lydians. Now, as the commencement of the Lydian dominion dates from the year 797 B.C., and as the Ilians seem to have been completely established there long before the arrival of Xerxes in 480 B.C., we may fairly assume that their first settlement in Troy took place about 700 B.C. The house-walls of Hellenic architecture, consisting of large stones without cement, as well as the remains of Greek household utensils, do not, however, extend in any case to a depth of more than two meters (6½ feet) in the excavations on the flat surface of the hill.

As I find in Ilium no inscriptions later than those belonging to the second century after Christ, and no coins of a later date than Constans II. and Constantine II., but very many belonging to these two emperors, as well as to Constantine the Great, it may be regarded as certain that the town began to decay even before the time of Constantine the Great, who, as is well known, at first intended to build Constantinople on that site; but that it remained an inhabited place till about the end of the reign of Constans II., that is till about A.D. 361. But the accumulation of *débris* during this long period of 1061 years amounts only to two meters or 6½ feet, whereas we have still to dig to a depth of 12 meters or 40 feet, and in many places even to 14 meters or 46½ feet, below this, before reaching the native ground which consists of shelly limestone (*Muschelkalk*). This immense layer of *débris* from 40 to 46½ feet thick, which has been left by the four different nations that successively inhabited the hill *before* the arrival of the Greek colony, that is before 709 B.C., is an immensely rich *cornucopia* of the most remarkable terra-cottas, such as have never been seen before, and of other objects which have not the most distant resemblance to the productions of Hellenic art. The question now forces itself upon us:—Whether this enormous mass of ruins may not have been brought from another place to increase the height of the hill? Such an hypothesis, as every

visitor to my excavations may convince himself at the first glance, is perfectly impossible; because in all the strata of *débris*, from the native rock, at a depth of from 14 to 16 meters (46 to 52½ feet) up to 4 meters (13 feet) below the surface, we continually see remains of masonry, which rest upon strong foundations, and are the ruins of real houses; and, moreover, because all the numerous large wine, water, and funereal urns that are met with are found in an upright position. The next question is:—But how many centuries have been required to form a layer of *débris*, 40 and even 46½ feet thick, from the ruins of pre-Hellenic houses, if the formation of the uppermost one, the Greek layer of 6½ feet thick, required 1061 years? During my three years' excavations in the depths of Troy, I have had daily and hourly opportunities of convincing myself that, from the standard of our own or of the ancient Greek mode of life, we can form no idea of the life and doings of the four nations which successively inhabited this hill before the time of the Greek settlement. They must have had a terrible time of it, otherwise we should not find the walls of one house upon the ruined remains of another, in continuous but *irregular* succession; and it is just because we can form no idea of the way in which these nations lived and what calamities they had to endure, that



Homer sings, because I imagined that I had found among their ruins fragments of the double cup, the Homeric "δέπας ἀμφικύπελλον." From closer examination, however, it has become evident that these fragments were the remains of simple cups with a hollow stem, which can never have been used as a second cup. Moreover, I believe that in my memoirs of this year (1873) I have sufficiently proved that Aristotle (*Hist. Anim.*, IX. 40) is wrong in assigning to the Homeric "δέπας ἀμφικύπελλον" the form of a bee's cell, whence this cup has ever since been erroneously interpreted as a double cup, and that it can mean nothing but a cup with a handle on either side. Cups of such a form are *never* met with in the *débris* of the first settlement of this hill; but they frequently occur, and in great quantities, among those of the succeeding people, and also among those of the two later nations which preceded the Greek colony on the spot. The large golden cup with two handles, weighing 600 grammes (a pound and a half), which I found in the royal treasure at the depth of 28 feet in the *débris* of the second people, leaves no doubt of this fact.*

No. 1.
Fragment of *painted* pottery from the lowest stratum (16 M.).

The terra-cottas which I found on the native rock, at a depth of 14 meters (46 feet), are all of a more excellent quality than any met with in the upper strata. They are of a brilliant black, red, or brown colour, ornamented with patterns cut and filled with a white substance; the flat cups have horizontal rings on two sides, the vases have generally two perpendicular rings on each side for hanging them up with cords. Of painted terra-cottas I found only one fragment.†

* For this remarkable vessel see Chapter XXIII. and Plate XVII.

† But a second was found in the stratum above (see the Illustration, No. 35, at the end of the Introduction).

All that can be said of the first settlers is that they belonged to the Aryan race, as is sufficiently proved by the Aryan religious symbols met with in the strata of their ruins (among which we find the *Suastika* 卐), both upon the pieces of pottery and upon the small curious terra-cottas with a hole in the centre, which have the form of the crater of a volcano or of a *carrousel* (*i. e.* a top).*

The excavations made this year (1873) have sufficiently proved that the second nation which built a town on this hill, upon the *débris* of the first settlers (which is from 13 to 20 feet deep), are the Trojans of whom Homer sings. Their *débris* lies from 7 to 10 meters, or 23 to 33 feet, below the surface. This Trojan stratum, which, without exception, bears marks of great heat, consists mainly of red ashes of wood, which rise from 5 to 10 feet above the Great Tower of Ilium, the double Scæan Gate, and the great enclosing Wall, the construction of which Homer ascribes to Poseidon and Apollo; and they show that the town was destroyed by a fearful conflagration. How great the heat must have been is clear also from the large slabs of stone upon the road leading from the double Scæan Gate down to the Plain: for when I laid this road open a few months ago, all the slabs appeared as unin-

10 feet, which had been exposed to the heat, began to crumble away, and they have now almost disappeared, while those of the lower portion of the road, which had not been touched by the fire, have remained uninjured, and seem to be indestructible. A further proof of the terrible catastrophe is furnished by a stratum of scoriæ of melted lead and copper, from $\frac{1}{5}$ to $1\frac{1}{5}$ of an inch thick, which extends nearly through the whole hill at a depth of from 28 to $29\frac{1}{2}$ feet. That Troy was destroyed by enemies after a bloody war is further attested by the many human bones which I found in these heaps of *débris*, and above all by the skeletons with helmets, found in the depths of the temple of Athena;* for, as we know from Homer, all corpses were burnt and the ashes were preserved in urns. Of such urns I have found an immense number in all the pre-Hellenic strata on the hill. Lastly, the Treasure, which some member of the royal family had probably endeavoured to save during the destruction of the city, but was forced to abandon, leaves no doubt that the city was destroyed by the hands of enemies. I found this Treasure on the large enclosing wall by the side of the royal palace, at a depth of $27\frac{1}{2}$ feet, and covered with red Trojan ashes from 5 to $6\frac{1}{2}$ feet in depth, above which was a post-Trojan wall of fortification $19\frac{1}{2}$ feet high.

Trusting to the data of the Iliad, the exactness of which I used to believe in as in the Gospel itself, I imagined that *Hissarlik*, the hill which I have ransacked for three years, was the Pergamus of the city, that Troy must have had 50,000 inhabitants, and that its area must have extended over the whole space occupied by the Greek colony of Ilium.†

Notwithstanding this, I was determined to investigate the matter accurately, and I thought that I could not do so in any better way than by making borings. I accordingly began cautiously to dig at the extreme ends of the

* See p. 280.

† See the Plan of Greek Ilium (Plan I.).

Greek Ilium; but these borings down to the native rock brought to light only walls of houses, and fragments of pottery belonging to the Greek period,—not a trace of the remains of the preceding occupants. In making these borings, therefore, I gradually came nearer to the fancied Pergamus, but without any better success; till at last as many as seven shafts, which I dug at the very foot of the hill down to the rock, produced only Greek masonry and fragments of Greek pottery. I now therefore assert most positively that Troy was limited to the small surface of this hill; that its area is accurately marked by its great surrounding wall, laid open by me in many places; that the city had no Acropolis, and that the Pergamus is a pure invention of Homer; and further that the area of Troy in post-Trojan times down to the Greek settlement was only increased so far as the hill was enlarged by the *débris* that was thrown down, but that the Ilium of the Greek colony had a much larger extent at the time of its foundation.*

Though, however, we find on the one hand that we have been deceived in regard to the size of Troy, yet on the other we must feel great satisfaction in the certainty, now at length ascertained, that Troy really existed, that the

neither have seen the Great Tower of Ilium nor the Scæan Gate, nor the great enclosing Wall, nor the palace of Priam; for, as every visitor to the Troad may convince himself by my excavations, the ruins and red ashes of Troy alone—forming a layer of from five to ten feet thick—covered all these remains of immortal fame; and this accumulation of *débris* must have been much more considerable at the time of Homer's visit. Homer made no excavations so as to bring those remains to light, but he knew of them from tradition; for the tragic fate of Troy had for centuries been in the mouths of all minstrels, and the interest attached to it was so great that, as my excavations have proved, tradition itself gave the exact truth in many details. Such, for instance, is the memory of the Scæan Gate in the Great Tower of Ilium, and the constant use of the name Scæan Gate in the plural, because it had to be described as double,* and in fact it has been proved to be a double gate. According to the lines in the Iliad (XX. 307, 308), it now seems to me extremely probable that, at the time of Homer's visit, the King of Troy declared that his race was descended in a direct line from Æneas.†

Now as Homer never saw Ilium's Great Tower, nor the Scæan Gate, and could not imagine that these buildings lay buried deep beneath his feet, and as he probably imagined Troy to have been very large—according to the then existing poetical legends—and perhaps wished to

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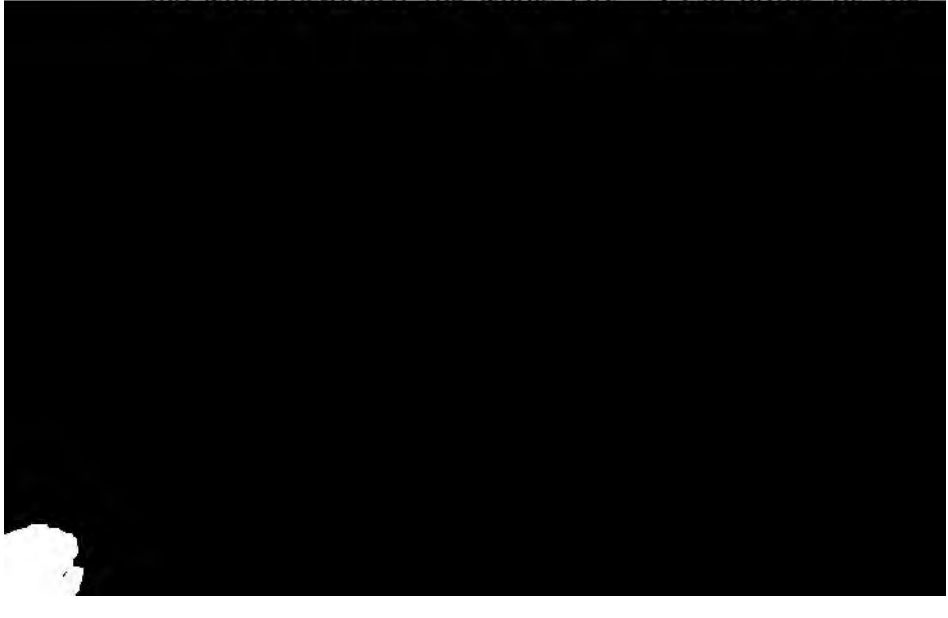
* The double form of an outer and inner gate, and the use of πύλαι in the plural for a city gate, are both far too frequent to justify our founding an argument merely on the plural form of the Σκαίαι πύλαι.—[ED.]

† Νῦν δὲ δὴ Αἰνείαο βίη Τρώεσσιν ἀνάξει,
Καὶ παίδων παῖδες, τοί κεν μετόπισθε γένωνται.

"But o'er the Trojans shall Æneas reign,
And his sons' sons, through ages yet unborn."

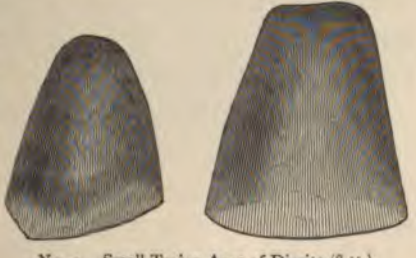
This is the declaration of Poseidon to the gods, when Æneas was in peril of his life by the sword of Achilles. (But compare p. 182).—[ED.]

describe it as still larger, we cannot be surprised that he makes Hector descend from the palace in the Pergamus and hurry through the town in order to arrive at the Scæan Gate; whereas that gate and Ilium's Great Tower, in which it stands, are in reality directly in front of the royal house. That this house is really the king's palace seems evident from its size, from the thickness of its stone walls, in contrast to those of the other houses of the town, which are built almost exclusively of unburnt bricks, and from its imposing situation upon an artificial hill directly in front of or beside the Scæan Gate, the Great Tower, and the great surrounding Wall. This is confirmed by the many splendid objects found in its ruins, especially the enormous royally ornamented vase with the picture of the owl-headed goddess Athena, the tutelary divinity of Ilium (see No. 219, p. 307); and lastly, above all other things, by the rich Treasure found close by it (Plate II.). I cannot, of course, prove that the name of this king, the owner of this treasure, was really PRIAM; but I give him this name because he is so called by Homer and in all the traditions. All that I can prove is, that the palace of the owner of this treasure, this last Trojan king, perished in the great catastrophe, which destroyed the Scæan Gate, the great surrounding Wall, and the Great Tower, and which desolated the whole city. I can prove by the



Ilium to the first occupants of the hill; but I have long since come to the firm conviction that it is the work of the second people, the Trojans, because it is upon the north side only, within the Trojan stratum of ruins, and from 16 to 19½ feet above the native soil, that it is made of actual masonry. I have, in my letters, repeatedly drawn attention to the fact, that the terra-cottas which I found upon the Tower can only be compared with those found at a depth of from 36 to 46 feet. This, however, applies only to the beauty of the clay and the elegance of the vessels, but in no way to their types, which, as the reader may convince himself from the illustrations to this work, are utterly different from the pottery of the first settlers.

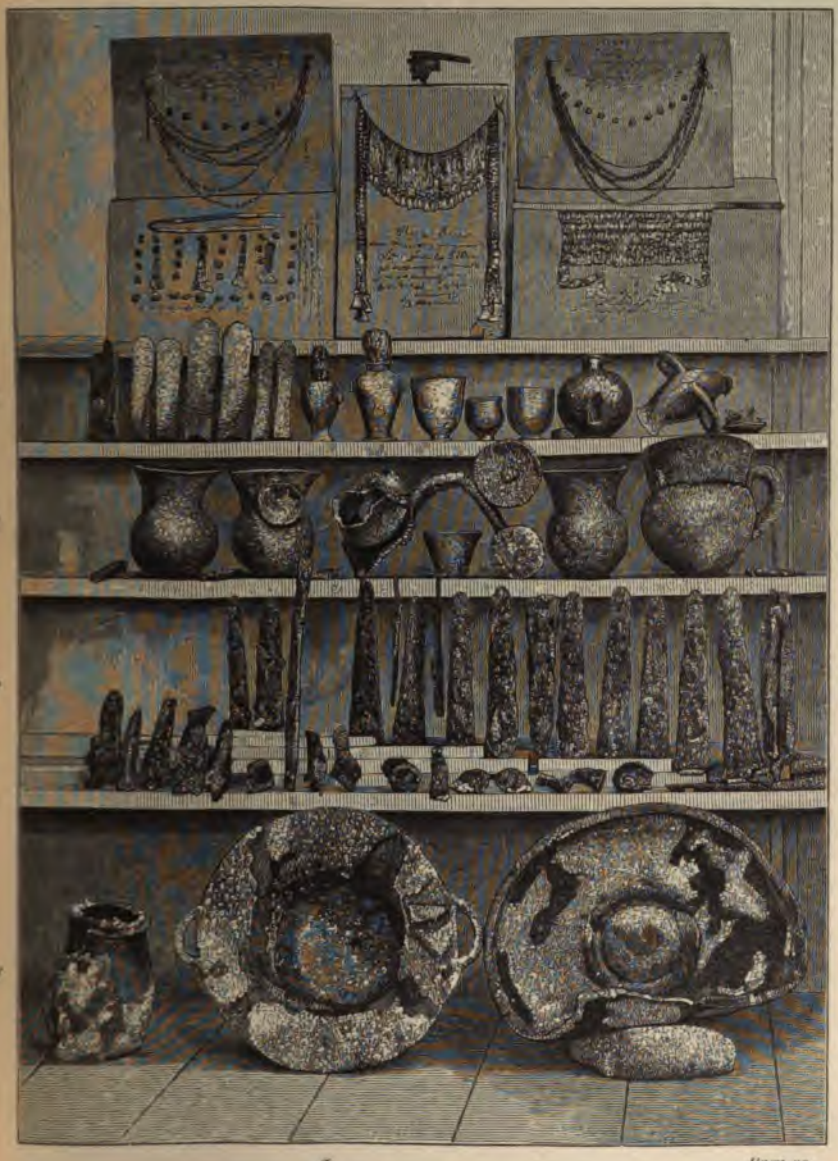
It has been hitherto thought that the occurrence of stone implements indicates the "Age of Stone." My excavations here in Troy, however, prove this opinion to be completely erroneous; for I very frequently find implements of stone even immediately below the *débris* belonging to the Greek colony, that is at a depth of 6½ feet, and they occur in very great quantities from a depth of 13 feet downwards. Those, however, in the Trojan *stratum*, from 23 to 33 feet below the surface, are in general of much better workmanship than those above. I wish to draw attention to the fact that unfortunately, when writing the present book, I made the mistake, which is now inconceivable to me, of applying the name of *wedges* to those splendidly-cut weapons and implements, the greater part of which are made of diorite, but frequently also of very hard and transparent green stone, such as are given here and in several later illustrations. They are, however, as anyone can convince himself, not wedges but



No. 2. Small Trojan Axes of Diorite (8 M.).

axes, and the majority of them must have been used as battle-axes. Many, to judge from their form, seem to be excellently fitted to be employed as lances, and may have been used as such. I have collected many hundreds of them. But, together with the thousands of stone implements, I found also many of copper; and the frequently discovered moulds of mica-schist for casting copper weapons and implements, as well as the many small crucibles, and small roughly made bowls, spoons, and funnels for filling the moulds, prove that this metal was much used. The strata of copper and lead scoriæ, met with at a depth of from 28 to 29½ feet, leave no doubt that this was the case. It must be observed that all the copper articles met with are of pure copper, without the admixture of any other metal.* Even the king's Treasure contained, besides other articles made of this metal, a shield with a large boss in the centre; a great caldron; a kettle or vase; a long slab with a silver vase welded on to it by the conflagration; and many fragments of other vases.†

This Treasure of the supposed mythical king Priam, of the mythical heroic age, which I discovered at a great depth in the ruins of the supposed mythical Troy, is at all events a discovery which stands alone in archæology, reveal-



Page 22.

GENERAL VIEW OF THE TREASURE OF PRIAM. (Depth 8½ M.)

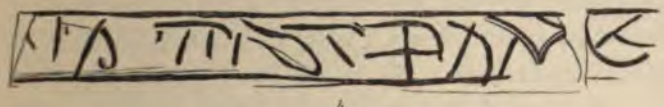
a. Key of the Treasure Chest.
b. The Golden Diadems, Fillet, Ear-rings, and Small Jewels.
c. Silver "Talents" and Vessels of Silver and Gold.
d. Silver Vases and curious Plate of Copper.
e. Weapons and Helmet-Crests of Copper or Bronze.
f. Copper Vessel. *g*. Copper Caldron. *h*. Copper Shield.

inestimable value to science, and will for centuries remain the object of careful investigation.

Unfortunately upon none of the articles of the Treasure do I find an inscription, or any other religious symbols, except the 100 idols of the Homeric "*θεὰ γλαυκῶπις Ἀθήνη*," which glitter upon the two diadems and the four ear-rings. These are, however, an irrefragable proof that the Treasure belongs to the city and to the age of which Homer sings.

Yet a written language was not wanting at that time. For instance, I found at a depth of 26 feet, in the royal palace, the vase with an inscription, of which a drawing is here given; and I wish to call especial attention to

a



b

No. 3. (*a*). Inscribed Terra-cotta Vase from the Palace (8 in.).
(*b*). The Inscription thereon.

the fact, that of the characters occurring in it, the letter like the Greek P occurs also in the inscription on a seal, found at the depth of 23 feet; the second and third letter to the left of this upon a whorl of terra-cotta,*

* Engraved among the lithographic plates at the end of the volume, Pl. LI., No. 496. Since the publication of Dr. Schliemann's work, many

likewise found at a depth of 23 feet; and the third letter also upon two small funnels of terra-cotta, from a depth of 10 feet (see p. 191). I further found in the royal palace the excellent engraved inscription on a piece of red slate; but I see here only one character resembling one of the letters of the inscription on the above-mentioned seal. My friend the great Indian scholar, Emile Burnouf, conjectures that all these characters belong to a very ancient Græco-Asiatic local alphabet. Professor H. Brunn, of Munich, writes to me that he has shown these inscriptions to Professor Haug, and that he has pointed out their relationship and con-

No. 4. Inscribed Terra-cotta Seal (7 M.).

No. 5. Piece of Red Slate, perhaps a Whetstone, with an Inscription (7 M.).

nection with the Phœnician alphabet (from which the Greek alphabet is however derived), and has found certain analogies between them and the inscription on the bronze table which was found at Idalium in Cyprus, and is now in the *Cabinet des Médailles* in Paris. Professor Brunn adds that the connection of things found at Troy with those found in Cyprus is in no way surprising, but may be very well reconciled with Homer, and that at all events particular attention should be paid to this connection, for, in his opinion, Cyprus is the

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of these Trojan inscriptions have been more certainly determined to be real inscriptions in the *Cyprian syllabic character*, through the researches of Dr. Martin Haug and Professor Gomperz of Vienna. (See the Appendix.)—[ED.]

cradle of Greek art, or, so to speak, the caldron in which Asiatic, Egyptian, and Greek ingredients were brewed together, and out of which, at a later period, Greek art came forth as the clear product.

I find in these Trojan layers of *débris* an abundance of splendid pottery, and more especially large and small cups with two handles, or with one from below in the form of a crown;* vases with rings on the sides and with holes in the same direction in the lip, for hanging them up by cords; all kinds of domestic utensils; also a beautifully ornamented flute made of bone, several pieces of other flutes, and a splendidly ornamented piece of ivory, which is part of a lyre *with only four strings*.

No. 6. Terra-cotta Vase Cover (8 M.).

Like the first settlers on this sacred spot, the Trojans also were of the Aryan race; for I find among their remains enormous quantities of the

No. 7. Ornamented Ivory Tube, probably a Trojan Flute (8 M.).

small articles of terra-cotta in the form of volcanoes and tops (*carrousels*), with carvings of Aryan religious symbols.

The building materials of the Trojans are of various kinds. With but few exceptions, all the house-walls which I have uncovered are composed of unburnt sun-dried bricks, which in the heat of the conflagration have become a kind of really burnt bricks. But the royal palace and two small buildings in the depths of the temple of

No. 8. Piece of Ivory, belonging to a Trojan Lyre with Four Strings (about 8 M.).

* Dr. Schliemann has since pronounced these crown-shaped vessels to be *covers* of vases; though they may, he thinks, have been used for cups as well. One is seen placed on the splendid vase on p. 48.—[ED.]

Athena, as well as the Great Tower of Ilium, the Scæan Gate, and the great enclosing Wall, are generally composed of unhewn stones joined with earth, the less rough face of the stones being turned to the outside, so that the walls have a tolerably smooth appearance.

I thought last year, upon uncovering the Great Tower of Ilium, that it must have been at one time higher than it now is, namely 6 meters or 20 feet; but its flat-built top beside the Scæan Gate, and the *benches* (not ruins, as I formerly thought) afterwards found upon it, prove that it can never have been higher.* I would draw especial attention to the fact, that the masonry of the Scæan Gate, upon being uncovered, looked as wonderfully fresh as if it had been erected quite recently. It is quite certain that it possessed strong wooden fortifications, and probably also a wooden tower above the gateway; for otherwise it is inexplicable to me how the entrance of the Gate can have been covered to the height of 10 feet by those red Trojan wood-ashes, and especially how it was that there, far from the other buildings, the heat should have been so great that even the thick slabs of stone have been destroyed by it.

Homer speaks of Troy as having been destroyed by Hercules previous to the Trojan war,† and it will ever

As to the chronology of Troy, we have only the general supposition of antiquity that the Trojan War occurred about B.C. 1200, and Homer's statement (*Iliad*, XX. 215-237) that Dardanus, the first Trojan King, founded Dardania, which town I agree with Virgil and Euripides in considering identical with Ilium, and that after him it was governed by his son Erichthonius, and then by his grandson Tros, by his great-grandson Ilus, and then by his son Laomedon, and by his grandson Priam. Even if we allow every one of these six kings a long reign of 33 years, we nevertheless scarcely carry the foundation of the town beyond 1400 B.C., that is 700 years before the Greek colony.

The site of Troy, which at the time of its foundation was 10 meters (about 33 feet) below the present surface, was only 7 meters (23 feet) below it after its destruction, when Ilium was again rebuilt by another people of Aryan origin; for, in the *débris* of this people, which extends to a depth of from 7 to 4 meters (23 to 13 feet) below the present surface, I find the same objects of terra-cotta with religious symbols.

On the photographic plates of the Atlas I have carefully stated the depth at which every object was found, so that it is very easy to find out which of them belong to this people.* Their pottery resembles that of the Trojans, but it is worse and coarser, and we meet with many new types. Almost all their vases have a tube on either side for hanging them up by cords. I here found, at a depth of 16½ feet, part of a lyre made of stone, with six strings; and

No. 9. Ornamented Piece of Ivory belonging to a Trojan Seven-Stringed Lyre (7 M.).

* This most important key to the archæological evidence collected by Dr. Schliemann has been preserved in the present translation. The depths are given in *meters* for the reasons stated in the Preface.

at a depth of 13 feet the beautifully ornamented ivory piece of another lyre, with seven strings, here shown.

The architecture of this people, as may be seen from the many house-walls which I have uncovered, was always of small stones joined with earth. Yet in two places in the depths of the temple of Athena there is a wall of sun-dried bricks, which appears to belong to this nation. Their houses were smaller, and less wood was employed in their construction than in those of the Trojans; for, although the ruins of houses lying one upon another show that several great convulsions have taken place, still we find here far fewer charred ruins than among those of the preceding people; nay, these layers of *débris* have in the majority of cases a grey or black appearance, and they contain millions of small mussel-shells, bones, fish-bones, and so forth. It is curious that in these strata certain types of terra-cottas are only found exactly at the same depth, and that, for instance, the splendid *black* cups in the form of an hour-glass, and with two large handles, are confined to a depth of 6 meters (nearly 20 feet).

During the first two years of my excavations, at the depth of from 4 to 7 meters (13 to 23 feet), I found scarcely any copper, and consequently I believed that the

(13 to 6½ feet), many new types of terra-cotta vessels, but I no longer find any remains of house-walls; nay, even single stones are scarcely ever met with. At all events, directly after its destruction, the town was rebuilt of wood by another tribe of the Aryan race; for the small terra-cottas, adorned with Aryan religious symbols, although frequently of new types, occur in numbers in these layers of *débris*. Walls of fortification are indeed met with in these depths, but they had been built by the preceding people; as, for instance, the wall 19½ feet in height, whose base is at a depth of 5 to 6½ feet above the treasure, and which reached to within 1½ ft. of the surface. This *wooden Ilium* was, to all appearance, still less fortunate than the stone town of its predecessors; for, as is proved by the numerous calcined layers of *débris*, it was frequently desolated by fire. Whether these fires broke out accidentally, or were kindled by the hands of enemies, must for ever remain a riddle to us; but thus much is certain and evident from the terra-cottas found at these depths, that the civilization of the people, which had been but slight from the beginning, continued to decrease during the perpetual misfortunes of their town. I find, among the ruins of this nation, lances, battle-axes, and implements, of pure copper, and moulds for casting them; likewise a number of copper nails, which, however—as in the case of the preceding peoples who have inhabited this hill—are too long and thin to have been employed for fastening wood together, and must in all probability have been used as brooches: this seems to be proved by two nails of this kind on the top of which I found rows of perforated beads of gold or *electrum* soldered upon them. These two copper nails were, it is true, found immediately below the surface, but they must in any case belong to the pre-Hellenic time.

In the ruins of this people, at a depth of from 13 to 6½ feet, we also meet with stone implements, such as

hammers, splendidly polished axes and battle-axes of diorite, but considerably fewer than in the preceding stratum.

When the surface of the hill was about 2 meters (6½ feet) lower than it is now, Ilium was built by a Greek colony; and we have already endeavoured to prove that this settlement must have been founded about the year 700 B.C. From that time we find the remains of Hellenic house-walls of large hewn stones joined without cement. From about 1 meter (3¼ feet) below the surface, and upwards, there are also ruins of buildings, the stones of which are joined with cement or lime. We also meet with great numbers of copper coins of Ilium of the time of the Roman empire, from Augustus to Constans II. and Constantine II.; likewise older Ilian coins with the image of Athena, and medals of Alexandria Troas; also with some coins of Tenedos, Ophrynium and Sigeum, in some few cases at 3¼ feet, but generally at less than 20 inches below the surface. I once remarked erroneously that Byzantine coins were also met with here near the surface. But in my three years' excavations I have not found a single medal of a later date than Constans II. and Constantine II., except two bad coins belonging to a Byzantine monastery, which may have been lost by shepherds; and, as there is here not the remotest trace of Byzantine masonry or of Byzantine

Of the walls and fortifications of the Greek colony, almost the only portions that have been preserved are those which were apparently built by Lysimachus. The lower and prominent portion of the wall of the Tower belongs to more ancient times, probably to the beginning of the Greek colony. Of great political convulsions or catastrophes there seem now to have been but few or none at all; for the accumulation of *débris* during the long duration of the Greek colony, about 10½ centuries, amounts only to 2 meters (6½ feet).

Curiously enough, I find extremely little metal in the *débris* of the Greek colony. Half-a-dozen scythe-shaped knives, a double-edged axe, about two dozen nails, a cup, a few lances and arrows, are pretty nearly all that I discovered. I have described these objects in my memoirs as made of copper; but upon a more careful examination they have been found to be bronze, and pure copper is no longer met with in the Greek colony. The only objects of iron which I found were a key of curious shape, and a few arrows and nails, close to the surface. From Homer we know that the Trojans also possessed iron, as well as the metal which he calls κύανος, and which, even in antiquity, was translated by χάλυψ (steel). I am sure, however, that I have not discovered even a trace of this metal, either among the Trojan ruins or among those of any of the other nations which preceded the Greek colony on the hill.* Yet articles of iron and steel may have existed: I believe positively that they did exist: but they have vanished without leaving a trace of their existence; for, as we know, iron and steel become decomposed much more readily than copper. Of tin, which Homer so repeatedly mentions, I found of course no trace: this metal, as we know, is corroded very rapidly even when lying in a dry locality. Lead is found in the ruins of all the dif-

* It will be seen, however, from the analysis of M. Damour, that traces of iron (probably in the state of an ore) are found in one of the sling-bullets discovered by Dr. Schliemann.—[ED.]

ferent nations which have inhabited the hill; but, among those which preceded the Greek settlement, it is found principally in lumps of a hemispherical form. I find it first in general use only in the Greek colony, where it was employed as a means for uniting stones in building.

To judge from the area of the Ilium of the Greek colony,* it may have possessed 100,000 inhabitants. It must in its best days have been very rich, and the plastic art must have attained a high degree of perfection here. Accordingly the site of the town, which is covered with abundant relics of grand buildings, is strewn with fragments of excellent sculptures, and the splendid block of triglyphs —6½ feet in length and 2 feet 10 inches in height, with a *metopé* which represents Phœbus Apollo with the four horses of the Sun—is one of the most glorious masterpieces that have been preserved from the time when Greek art was in its zenith. I discovered it in the depths of the temple of Apollo, and it now adorns my garden at Athens. In describing this treasure of art in my memoir of the 18th of June, 1872,† directly after having discovered it, I made the remark that it must have belonged to the time of Lysimachus, that is to say to about the year 306 B.C. I sent a plaster cast of it to the Museum of Casts in Munich, and the Director of the Museum, Professor H. Brunn, who is

BLOCK OF TRIGLYPHS, WITH METOPÉ OF THE SUN-GOD.

From the Temple of Apollo in the Ruins of Greek Ilium.

Page 32.

times. Of external criteria the halo of rays is the only one. According to the investigations of Stephani,* this first occurs about the time of Alexander the Great. For the special form of long and short rays, we have the coins of Alexander I., of Epirus and of Ceos (Carthæa), mentioned by Curtius. The most recent example that I have as yet found is the Hades vase of Canosa, in our Museum, which belongs *at latest* to the second century before Christ; hence the extreme termini for the relief would be about the end of the fourth and the middle of the second centuries. The composition, as a work of art, shows the greatest skill in solving one of the most difficult problems. For the team of four horses ought *not* to move on the surface of the relief, but to appear as if it came out of it in a half-turn. This has been attained principally by making the right hinder thigh of the horse in the foreground pressed back while the left foot steps forward, and moreover this same horse is slightly foreshortened, and the surface of the thigh lies deeper than the upper surface of the triglyphs, while, on the other hand, the surfaces of the withers and of the neck are higher, and the head, in conformity with the rules of Greek reliefs, is again almost parallel with the base. For this reason there is no indication of a chariot, which has to be imagined as concealed by the foremost horse. Moreover the position of the god is half turned forwards, slightly following that of the head, and here also the arm is again strongly turned inwards, but not so as to bring the position in conflict with the rules of relief. If the encroachment of the head on the upper border of the triglyph is considered inaccurate, I find in this a very happy thought, which may remind us of the differently conceived pediment of the Parthenon, where only the head and shoulders of Helios rise out of the chariot still under the ocean. Helios here, so to speak, bursts forth from the gates of day and sheds the light of his glory over all. These

* *Nimbus und Strahlenkranz.*

are beauties peculiar only to Greek art in the fulness of its power. The execution corresponds perfectly with the excellence of the ideas, and thus I do not hesitate to place the relief nearer to the commencement than to the end of the above limited space of time. If, therefore, for other reasons, you believe it to belong to the time of Lysimachus, I, from an archæological point of view, have no objection to make against the supposition, but I rejoice to see our treasure of monuments enriched by an original from those times."

I have already proved the relationship of the four different peoples, who inhabited the site of Troy before the arrival of the Greek colony, by the small terra-cottas in the form of volcanoes and tops which are met with in quantities in all of the strata, and by the similarity of the Aryan religious symbols engraved upon them. I prove this relationship further, and above all, by the plastic representations of Athena, the owl-faced tutelary goddess of Ilium, for this representation is common to all the four nations which preceded the Greek colony. Immediately below the strata of the last, at a depth of 2 meters (6½ feet), I found this owl's face upon terra-cotta cups with a kind of

raised wings, and the breasts and abdomen of a woman, for they fit these vases perfectly. I found likewise in all the layers of *débris*, from a depth of 3 meters (nearly 10 feet) down to a depth of 10 meters (33 feet), vases with owls' faces, two upraised wings (not arms, as I formerly thought), and the two large breasts and abdomen of a woman, and even, at a depth of 6 meters (nearly 20 feet), a vase upon which the navel is ornamented with a cross and four nails. As far down as a depth of 14 meters (46 feet) I found the upper portion of a vase and the fragment of a dish adorned with owls' faces. Besides these, in all the layers of *débris*, from a depth of 6½ feet downwards, as far as the primary soil, there were found idols of very fine marble, of bone, of mica-schist, of slate, and even of ordinary limestone, which are from ¼ of an inch to 7¼ inches in length, and from 0·6 of an inch to 4·8 inches in breadth. Upon a great many of these there is an owl's face, and some have even long female hair engraved upon them; many also have a woman's girdle. As upon several of the idols, upon which I find the owl's head, it is not cut, but represented in a red or black colour, I presume that this was once the case with all the idols which now possess no indications of an owl, and that the colour upon these latter has been destroyed by damp, during the course of thousands of years. Upon several idols of marble and bone there are mere indications of wings on the sides. But I also find the petrified vertebra of an antediluvian animal upon which the Trojans have carved a large owl's head. Further, at a depth of 3, 4, 6, 7, 8, 9, and 14 meters (10, 13, 20, 23, 26, 30 and 46 feet), I found twelve idols of terra-cotta, and all, with only one exception, have owls' faces

No. 13. Terra-cotta Vase, marked with an Aryan symbol (6 M.).

Nos. 14–30. Rude Idols found in the various Strata (2 to 14 M.).

No. 14 is of Ivory, with the same Decorations on both sides. Nos. 15, 16, 18, 20, 25, 26, 28, are of very fine Marble. No. 17 is of Green Slate. Nos. 23, 24, 27 are of Terra-cotta: and No. 19 is a Piece of a Dish.

upon them; most of them also have the two breasts of a woman, and upon the back traces of long female hair. One of these owl-headed idols has the form of a vessel, with a funnel on each side in the shape of a smaller vessel; the front part of the body of the goddess, up to the neck, is covered by a long shield, and on the back of the body there is the long female hair hanging down, like that of the Karyatides in the Acropolis of Athens. Upon several of these terra-cotta idols there are indications of wings.

No. 31. Remarkable Trojan Terra-cotta Vase, representing the Ilian Athena (9 M.).

These owl-faced female figures, which occur so frequently upon the cups, vases and idols, can represent but one goddess, and this goddess can be none other than Athena, *the tutelary goddess of Troy*, all the more so as Homer continually calls her "θεὰ γλαυκῶπις Ἀθήνη;" for "γλαυκῶπις" has been wrongly translated by the scholars of every century, and does not signify "with bright and sparkling eyes," but "*with the face of an owl.*" The natural conclusion, in the first place, is that Homer perfectly well knew that the owl-faced Athena was the tutelary goddess of Troy; secondly, that the locality whose depths I have ransacked for three years must be the spot "ubi Troja fuit;" and thirdly, that, in the progress of civilization, Pallas Athena received a human face, and her former owl's head was transformed into her favourite bird, the owl,

which as such is quite unknown to Homer. At a depth of from 4 to 9 meters (13 to 29½ feet), I also found some vases and cups with a human face, but which have a good deal of the owl about them.

As I did not find a trace of the owl's face among the ruins of the Greek colony, we may regard it as certain that it had already advanced beyond the civilization of the old Ilians of whose town it took possession, and that it brought the idea of the goddess with a human face with it to Troy.

With regard to the often mentioned perforated terra-cottas in the form of a top and the crater of a volcano, adorned with Aryan religious symbols, it is possible that their original form was that of a wheel, for they occur frequently in this shape upon the primary rock at a depth of from 14 to 16 meters (46 to 52½ feet).* In the upper layers of *débris*, these objects in the form of wheels are indeed rare, but the representation of the wheel in motion, effected by the incisions being more numerous, still occurs very frequently.† In spite of all my searching and pondering, I have not yet succeeded in arriving at an opinion as to what

ten similar round articles of terra-cotta in the form of the top or volcano, which are preserved in the Museum of Modena, and were found in the terramares of that district, in the lake-habitations of the stone age. To my extreme astonishment, I found that six of them possessed the same ornamental carvings which I found upon the articles of the same form here in Troy. Three of them have a circle round the central sun, a triple cross, which, as I have endeavoured minutely to explain in my sixth memoir, was the symbol of the two pieces of wood of our Aryan forefathers for producing the holy fire, and is an emblem of the highest importance. The fourth represents one of these machines for producing fire with five ends, and Indian scholars may possibly find that one of the staves represents the piece of wood called "pramantha," with which fire was generated by friction, and which the Greeks at a later time transformed into their Prometheus, who, as they imagined, stole fire from heaven. The fifth represents a somewhat different form of the fire producer of our remote ancestors; and the sixth has twelve circles round the central sun. Probably these are the twelve stations of the sun which are so frequently mentioned in the Rigvêda, and which are personified by the twelve Adityas, the sons of Adity (the Indivisible or Infinite Space), and represent the twelve signs of the Zodiac.

The same friend has also sent me drawings of eighteen similar round terra-cottas found in the graves of the cemetery in Villanova, and now in the Museum of Count Gozzadini in Bologna. As the count found an "aes rude" in one of the graves, he thinks that the cemetery, like it, belongs to the time of King Numa, that is, to about 700 years before Christ. G. de Mortillet,* however, ascribes a much greater age to the cemetery. But, at all events, fifteen of the eighteen drawings lying before

* 'Le Signe de la Croix,' pp. 88–89.

me have a modern appearance compared with the ten in the Museum of Modena, and compared with my small terra-cottas in the form of tops, volcanoes, and wheels, found in Troy; for not only the decorations, but the forms also of the articles are very much more elaborate. Only three of the eighteen articles show a shape and decorations like those met with in Troy. All three have the form of a top: the first has seven suns in a circle round the central sun; the second has two crosses, one of which is formed by four stars, the other by four lines. The third has five triangles and five stars in the circle round the central point. The comparison of these eighteen articles with those from Troy convinces me that Count Gozzadini is right in ascribing no greater age to the cemetery of Villanova than 700 B.C.

But besides the articles ornamented with religious symbols, we meet in Troy with thousands of terra-cottas of a similar, but in most cases more lengthened form, with no decorations whatever; at a depth of 3 metres (10 feet), they occur also in the shape of cones.* Formerly, at a depth of 10 feet, I found similar pieces in blue or

appeared directly, if the pieces had been used on spindles or as coins. They cannot have been worn as amulets, on account of their size and weight: I am therefore forced to believe that they were employed as offerings, or that they were worshipped as idols of the Sun, whose image is seen in the centre.

Unfortunately, owing to the great extent of my excavations, the hurry in which they were carried on, and the hardness of the *débris*, by far the greater portion of the terra-cotta vessels found by me in the depths of Ilium were brought out more or less broken. But everything that could in any way be repaired I have restored by means of shell-lac and gypsum, and in this state they are represented in the drawings.* In all cases where I found a piece broken off and wanting, I restored it according to the model of other vessels of the same kind which I obtained in an unbroken condition; but where such models were wanting, or where I had the slightest doubt, I did not attempt to restore the articles.

The town of Ilium, upon whose site I have been digging for more than three years, boasted itself to be the successor of Troy; and as throughout antiquity the belief in the identity of its site with that of the ancient city of Priam was firmly established and not doubted by anyone, it is clear that the whole course of tradition confirms this identity. At last Strabo lifted up his voice against it; though, as he himself admits, he had never visited the Plain of Troy, and he trusted to the accounts of Demetrius of Scepsis, which were suggested by vanity. According to Strabo,† this Demetrius maintained that his native town of Scepsis had been the residence of Æneas, and he envied Ilium the honour of having been the

* These restorations are indicated in the engravings by light shading.

† XIII. i., p. 122, Tauchnitz edition.

metropolis of the Trojan kingdom. He therefore put forward the following view of the case:—that Ilium and its environs did not contain space enough for the great deeds of the Iliad; that the whole plain which separated the city from the sea was alluvial land, and that it was not formed until after the time of the Trojan war. As another proof that the locality of the two cities could not be the same, he adds that Achilles and Hector ran three times round Troy, whereas one could not run round Ilium on account of the continuous mountain ridge (*διὰ τὴν συνεχῆ ῥάχην*). For all of these reasons he says that ancient Troy must be placed on the site of the "Village of the Ilians" (*Ἰλιέων κώμη*), 30 stadia or 3 geographical miles from Ilium and 42 stadia from the coast, although he is obliged to admit that not the faintest trace of the city has been preserved.*

Strabo, with his peculiarly correct judgment, would assuredly have rejected all these erroneous assertions of Demetrius of Scepsis, had he himself visited the Plain of Troy, for they can easily be refuted.

I have to remark that it is quite easy to run round

the primary soil at a depth of less than a foot and a half; and the continuous ridge on the one side of the site, which appeared to contain the ruins of a large town-wall, consisted of nothing but pure granulated earth, without any admixture of ruins.

In the year 1788, Lechevalier visited the plain of Troy, and was so enthusiastically in favour of the theory that the site of Homer's Troy was to be found at the village of Bunarbashi and the heights behind it, that he disdained to investigate the site of Ilium: this is evident from his work 'Voyage de la Troade' (3e éd., Paris, 1802) and from the accompanying map, in which he most absurdly calls this very ancient town "Ilium Novum," and transposes it to the other side of the Scamander, beside *Kumkaleh*, close to the sea and about 4 miles from its true position. This theory, that the site of Troy can only be looked for in the village of Bunarbashi and upon the heights behind it, was likewise maintained by the following scholars: by Rennell, 'Observations on the Topography of the Plain of Troy' (London, 1814); by P. W. Forchhammer in the 'Journal of the Royal Geographical Society,' vol. xii., 1842; by Mauduit, 'Découvertes dans la Troade' (Paris et Londres, 1840); by Welcker, 'Kleine Schriften;' by Texier; by Choiseul-Gouffrier, 'Voyage Pittoresque de la Grèce' (1820); by M. G. Nikolaïdes (Paris, 1867); and by Ernst Curtius in his lecture delivered at Berlin in November, 1871, after his journey to the Troad and Ephesus, whither he was accompanied by Professors Adler and Müllenhof, and by Dr. Hirschfeldt. But, as I have explained in detail in my work, 'Ithaque, le Péloponnèse et Troie' (Paris, 1869), this theory is in every respect in direct opposition to all the statements of the Iliad. My excavations at Bunarbashi prove, moreover, that no town can ever have stood there; for I find everywhere the pure virgin soil at a depth of less than 5 feet, and generally immediately below the surface. I have likewise proved, by my excavations on

the heights behind this village, that human dwellings can never have existed there; for I found the native rock nowhere at a greater depth than a foot and a half. This is further confirmed by the sometimes pointed, sometimes abrupt, and always anomalous form of the rocks which are seen wherever they are not covered with earth. At half-an-hour's distance behind Bunarbashi there is, it is true, the site of quite a small town, encircled on two sides by precipices and on the other by the ruins of a surrounding wall, which town I formerly considered to be Scamandria; but one of the inscriptions found in the ruins of the temple of Athena in the Ilium of the Greek colony makes me now believe with certainty that the spot above Bunarbashi is not the site of Scamandria, but of Gergis. Moreover, the accumulation of *débris* there is extremely insignificant, and the naked rock protrudes not only in the small Acropolis, but also in very many places of the site of the little town. Further, in all cases where there is an accumulation of *débris*, I found fragments of Hellenic pottery, and of Hellenic pottery only, down to the primary soil. As archæology cannot

down to the primary soil, only discovered the same, and nothing but exactly the same, fragments of Hellenic pottery as I found there in my small excavations, writes in his pamphlet, 'Die Ausgrabungen des Homerischen Pergamos:' "In spite of the diligent search which my companions and I made on the extensive northern slope of the Balidagh, from the foot of the acropolis (of Gergis) to the springs of Bunarbashi, we could not discover any indication beyond the three heroic tombs, that might have pointed to a former human settlement, not even antique fragments of pottery and pieces of brick,—those never-failing, and consequently imperishable, proofs of an ancient settlement. No pillars or other masonry, no ancient square stones, no quarry in the natural rock, no artificial levelling of the rock; on all sides the earth was in its natural state and had not been touched by human hands."

The erroneous theory which assigns Troy to the heights of Bunarbashi could, in fact, never have gained ground, had its above-named advocates employed the few hours which they spent on the heights, and in Bunarbashi itself, in making small holes, with the aid of even a single workman.

Clarke and Barker Webb (Paris, 1844) maintained that Troy was situated on the hills of *Chiplak*. But unfortunately they also had not given themselves the trouble to make excavations there; otherwise they would have convinced themselves, with but very little trouble, that all the hills in and around Chiplak, as far as the surrounding Wall of Ilium, contain only the pure native soil.

H. N. Ulrichs* maintains that Troy was situated on the hills of *Atzik-Kioï*, which in my map I have called *Eski Akshi köi*. But I have examined these hills also, and found that they consist of the pure native soil. I used a spade in making these excavations, but a pocket-knife would have answered the purpose.

* 'Rheinisches Museum,' Neue Folge, III., s. 573–608.

I cannot conceive how it is possible that the solution of the great problem, "ubi Troja fuit"—which is surely one of the greatest interest to the whole civilized world—should have been treated so superficially that, after a few hours' visit to the Plain of Troy, men have sat down at home and written voluminous works to defend a theory, the worthlessness of which they would have perceived had they but made excavations for a single hour.

I am rejoiced that I can mention with praise Dr. Wilhelm Buchner,* Dr. G. von Eckenbrecher,† and C. MacLaren,‡ who, although they made no excavations, have nevertheless in their excellent treatises proved by many irrefutable arguments that the site of Ilium, where I have been digging for more than three years, corresponds with all the statements of the Iliad in regard to the site of Troy, and that the ancient city must be looked for there and nowhere else.

It is also with gratitude that I think of the great German scholar, who unfortunately succumbed five years ago to his unwearied exertions, Julius Braun, the advocate of the theory that Homer's Troy was to be found only on the site of Ilium, in the depths of the hill of Hissarlik. I most strongly recommend his excellent work, 'Die Ge-

French school in Athens, who personally, and through his many excellent works, especially the one published last year, 'La Science des Religions,' has given me several suggestions, which have enabled me to decipher many of the Trojan symbols.*

It is also with a feeling of gratitude that I think of my honoured friend, the most learned Greek whom I have ever had the pleasure of knowing, Professor Stephanos Kommanoudes, in Athens, who has supported me with his most valuable advice whenever I was in need of it. In like manner I here tender my cordial thanks to my honoured friend the Greek Consul of the Dardanelles, G. Dokos, who showed me many kindnesses during my long excavations.

I beg to draw especial attention to the fact that, in the neighbourhood of Troy, several types of very ancient pottery—like those found in my excavations at a depth of from 10 to 33 feet—have been preserved down to the present day. For instance, in the crockery-shops on the shores of the Dardanelles there are immense numbers of earthen vessels with long upright necks and the breasts of a woman, and others in the shape of animals. In spite of their gilding and other decorations, these vessels cannot, either in regard to quality or elegance of form, be compared with the Ilian terra-cottas, not even with those from a depth of 10 feet; but still they furnish a remarkable proof of the fact that, in spite of manifold political changes, certain types of terra-cottas can continue in existence in one district for more than 3000 years.

After long and mature deliberation, I have arrived at the firm conviction that all of those vessels—met with here in great numbers at a depth of from 10 to 33 feet, and

* Dr. Émile Burnouf has published a very clear and interesting account of Dr. Schliemann's discoveries, in the 'Revue des Deux Mondes' for Jan. 1, 1874.—[Ed.]

more especially in the Trojan layer of *débris*, at a depth of from 23 to 33 feet—which have the exact shape of a bell and a coronet beneath, so that they can only stand upon their mouth, and which I have hitherto described as cups, must necessarily, and perhaps even exclusively, have been used as *lids* to the numerous terra-cotta vases with a smooth neck and on either side two ear-shaped decorations, between which are two mighty wings, which, as they are hollowed and taper away to a point, can never have served as handles, the more so as between the ear-shaped decorations there is a small handle on either side. Now, as the latter resembles an owl's beak, and especially as this is seen between the ear-shaped ornaments, it was doubtless intended to represent the image of the owl with upraised wings on each side of the vases, which image received a noble appearance from the splendid lid with a coronet. I give a drawing of the largest vase of this type, which

No. 32. The largest of the Terra-cotta Vases found in the Royal Palace of Troy. Height 20 inches. The Cover was found near it.

was found a few days ago in the royal palace at a depth of from 28 to 29½ feet; on the top of it I have placed the bell-shaped lid with a coronet, which was discovered close by and appears to have belonged to it.

My friend M. Landerer, Professor of Chemistry in Athens, who has carefully examined the colours of the Trojan antiquities, writes to me as follows:—"In the first place, as to the vessels themselves, some have been turned upon a potter's wheel, some have been moulded by the hand. Their *ground-colour* varies according to the nature of the *clay*. I find some of them made of black, deep-brown, red, yellowish, and ashy-grey clay. All of these kinds of clay, which the Trojan potters used for their ware, consist of clay containing oxide of iron and silica (*argile silicieuse ferrugineuse*), and, according to the stronger or weaker mode of burning, the oxide of iron in the clay became more or less oxidised: thus the black, brown, red, yellow, or grey colour is explained by the oxidation of the iron. The beautiful black gloss of the vessels found upon the native soil, at a depth of 46 feet, does not contain any oxide of lead, but consists of *coal-black* (*Kohlenschwarz*),* which was melted together with the clay and penetrated into its pores. This can be explained by the clay vessels having been placed in slow furnaces in which resinous wood was burnt, and where there was consequently dense smoke, which descended upon the earthenware in the form of the finest powder and was likewise burnt into the clay. It is also possible, but by no means probable, that they used a black pitch or asphalt, which was dissolved in oil of turpentine; perhaps they used liquid pitch, and painted the vessels with it. The burning of these would likewise produce coal-black, which in later times was called the *Atramentum indelibile* of Apelles. This is the manner in which colour and gloss were given to Hellenic terra-cottas.

* As we call it, *lamp-black*, that is, tolerably pure carbon.—[ED.]

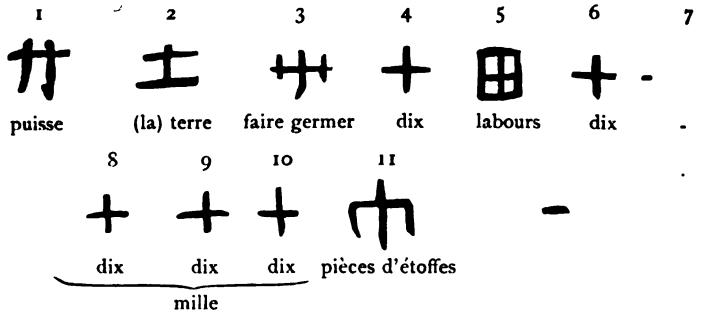
"The white colour with which the engraved decorations of the Trojan terra-cottas were filled, by means of a pointed instrument, is nothing but pure white clay. In like manner, the painting on the potsherd given above,* is made with white clay, and with black clay containing coal. The brilliant red colour of the large two-handled vessels (δέπα ἀμφικύπελλα) † is no peculiar colour, but merely oxide of iron, which is a component part of the clay of which the cups were made. Many of the brilliant yellow Trojan vessels, I find, are made of grey clay, and painted

No. 34. Inscription on the Vase No. 33.

The large marshes lying before the site of Ἰλιέων κώμη, and discussed in my second memoir, have long since been drained, and thus the estate of Thymbria (formerly Batak) has acquired 240 acres of rich land. As might have been expected, they were not found to contain any hot springs, but only three springs of cold water.

In my twenty-second memoir I have mentioned a Trojan vase, with a row of signs running round it, which I considered to be symbolical, and therefore did not have them specially reproduced by photography. However, as my learned friend Émile Burnouf is of opinion that they form a real inscription in Chinese letters,* I give them here according to his drawing.

M. Burnouf explains them as follows:—



and adds: "Les caractères du petit vase ne sont ni grecs ni sanscrits, ni phéniciens, ni, ni, ni—ils sont parfaitement lisibles en chinois!!! Ce vase peut être venu en Troade de l'Asie septentrional, dont tout le Nord était touranien." Characters similar to those given above frequently occur, more especially upon the perforated terra-cottas in the form of volcanoes and tops.

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great champagne glasses (see the Cuts on pp. 85, 158, 166, 171). Dr. Schliemann also applies the name to the unique boat-shaped vessel of pure gold found in the Treasure.—[Ed.]

* If M. Burnouf meant this seriously at the time, it can now only stand as a curious coincidence, interesting as one example of the tentative process of this new enquiry. (See the Appendix.)—[Ed.]

As the Turkish papers have charged me in a shameful manner with having acted against the letter of the firman granted to me, in having kept the Treasure for myself instead of sharing it with the Turkish Government, I find myself obliged to explain here, in a few words, how it is that I have the most perfect right to that treasure. It was only in order to spare Safvet Pacha, the late Minister of Public Instruction, that I stated in my first memoir, that at my request, and in the interest of science, he had arranged for the portion of Hissarlik, which belonged to the two Turks in Kum-Kaleh, to be bought by the Government. But the true state of the case is this. Since my excavations here in the beginning of April 1870, I had made unceasing endeavours to buy this field, and at last, after having travelled three times to Kum-Kaleh simply with this object, I succeeded in beating the two proprietors down to the sum of 1000 francs (40*l.*) Then, in December 1870, I went to Safvet Pacha at Constantinople, and told him that, after eight months' vain endeavours, I had at last succeeded in arranging for the purchase of the principal site of Troy for 1000 francs, and that I should conclude the bargain as soon as he would grant me permission to excavate the field. He knew nothing about Troy or Homer; but I explained

But through Mr. Wyne McVeagh, at that time the American Consul, he repeatedly offered to let me make excavations, on condition that I should give him only one-half of the things found. At the persuasion of that gentleman I accepted the offer, on condition that I should have the right to carry away my half out of Turkey. But the right thus conceded to me was revoked in April 1872, by a ministerial decree, in which it was said that I was not to export any part of my share of the discovered antiquities, but that I had the right to sell them in Turkey. The Turkish Government, by this new decree, broke our written contract in the fullest sense of the word, and I was released from every obligation. Hence I no longer troubled myself in the slightest degree about the contract which was broken without any fault on my part. I kept everything valuable that I found for myself, and thus saved it for science; and I feel sure that the whole civilized world will approve of my having done so. The new-discovered Trojan antiquities, and especially the Treasure, far surpass my most sanguine expectations, and fully repay me for the contemptible trick which Safvet Pacha played me, as well as for the continual and unpleasant presence of a Turkish official during my excavations, to whom I was forced to pay 4¾ francs a day.

It was by no means because I considered it to be my duty, but simply to show my friendly intentions, that I presented the Museum in Constantinople with seven large vases, from 5 to 6½ feet in height, and with four sacks of stone implements. I have thus become the only benefactor the Museum has ever had; for, although all firmans are granted upon the express condition that one-half of the discovered antiquities shall be given to the Museum, yet it has hitherto never received an article from anyone. The reason is that the Museum is anything but open to the public, and the sentry frequently refuses admittance even to its Director, so everyone knows

that the antiquities sent there would be for ever lost to science.

The great Indian scholar, Max Müller of Oxford, has just written to me in regard to the owl-headed tutelary divinity of Troy. "Under all circumstances, the owl-headed idol cannot be made to explain the idea of the goddess. The ideal conception and the naming of the goddess came first; and in that name the owl's head, whatever it may mean, is figurative or ideal. In the idol the figurative intention is forgotten, just as the sun is represented with a golden hand, whereas the ideal conception of 'golden-handed' was 'spreading his golden rays.' An owl-headed deity was most likely intended for a deity of the morning or the dawn, the owl-light; to change it into a human figure with an owl's head was the work of a later and more materializing age."

I completely agree with this. But it is evident from this that the Trojans, or at least the first settlers on the hill, spoke Greek, for if they took the epithet of their goddess, "γλαυκῶπις," from the ideal conception which they formed of her and in later times changed it into an owl-headed female figure, they must necessarily have known that γλαῦξ meant *owl*, and ὠπή *face*. That the transfor-

for a short time.* These pieces of earthenware may be recognised by the two long-pointed handles of the large channelled cups, which also generally possess three or four small horns.

DR. HENRY SCHLIEMANN.

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* These indications of a fifth pre-Hellenic settlement, if confirmed by further investigation, would seem to point to the spread of the Lydians over western Asia Minor.—ED.

No. 35. Fragment of a second painted Vase, from the Trojan Stratum. (From a new Drawing.)

COMPARATIVE TABLE OF FRENCH METERS AND ENGLIS MEASURES, EXACT AND APPROXIMATE.

M.	Inches.	Ft.	Inches.	Approximate. 1 M. = 3¼ ft.
				Feet.
1	39·3708	3	3·3708	3¼
2	78·7416	6	6·7416	6½
3	118·1124	9	10·1124	10
4	157·4832	13	1·4832	13
5	196·8540	16	4·8540	16⅓
6	236·2248	19	8·2248	19⅔
7	275·5956	22	11·5956	23
8	314·9664	26	2·9664	26¼
9	354·3372	29	6·3372	29½
10	393·7089	32	9·7080	33
11	433·0788	36	1·0788	36 (12 yds.)
12	472·4496	39	4·4496	39⅓
13	511·8204	42	7·8204	42⅔
14	551·1912	45	11·1912	46
15	590·5620	49	2·5620	49¼
16	620·9328	52	5·9328	52½
17	669·3036	55	9·3036	55¾
18	708·6744	59	0·6744	59
19	748·0452	62	4·0452	62½

WORK AT HISSARLIK IN 1871.

CHAPTER I.

The site of ILIUM described — Excavations in 1870: the City Wall of Lysimachus — Purchase of the site and grant of a *firman* — Arrival of Dr. and Madame Schliemann in 1871, and beginning of the Excavations — The Hill of HISSARLIK, the *Acropolis* of the Greek Ilium — Search for its limits — Difficulties of the work — The great cutting on the North side — Greek coins found — Dangers from fever.

On the Hill of Hissarlik, in the Plain of Troy,
October 18th, 1871.

IN my work 'Ithaca, the Peloponnesus, and Troy,' published in 1869, I endeavoured to prove, both by the result of my own excavations and by the statements of the Iliad, that the Homeric Troy cannot possibly have been situated on the heights of Bunarbashi, to which place most archæologists assign it. At the same time I endeavoured to explain that the site of Troy must necessarily be identical with the site of that town which, throughout all antiquity and down to its complete destruction at the end of the eighth or the beginning of the ninth century A.D.,* was called Ilium, and not until 1000 years after its disappearance—that is 1788 A.D.—was christened Ilium Novum by Le-

* This date refers to Dr. Schliemann's former opinion, that there were Byzantine remains at Hissarlik. He now places the final destruction of Ilium in the fourth century, on the evidence of the latest coins found there. See pp. 318, 319.—ED.

chevalier,* who, as his work proves, can never have visited his *Ilium Novum;* for in his map he places it on the other side of the Scamander, close to *Kum-kaleh*, and therefore 4 miles from its true position.

The site of Ilium is upon a plateau lying on an average about 80 feet above the Plain, and descending very abruptly on the north side. Its north-western corner is formed by a hill about 26 feet higher still, which is about 705 feet in breadth and 984 in length,† and from its imposing situation and natural fortifications this hill of *Hissarlik* seems specially suited to be the Acropolis of the town.‡ Ever since my first visit, I never doubted that I should find the Pergamus of Priam in the depths of this hill. In an excavation which I made on its north-western corner in April 1870,§ I found among other things, at a depth of 16 feet, walls about 6½ feet thick, which, as has now been proved, belong to a bastion of the time of Lysimachus. Unfortunately I could not continue those excavations at the time, because the proprietors of the field, two Turks in Kum-Kaleh, who had their sheepfolds on the site, would only grant me permission to dig further on condition that I would at once pay them 12,000 piasters for damages,‖ and in addition they wished to bind me, after the con-

by competent persons, and to force the proprietors to sell it to the Government at the price at which it had been valued: it was thus obtained for 3000 piasters.

In trying to obtain the necessary firman for continuing my excavations, I met with new and great difficulties, for the Turkish Government are collecting ancient works of art for their recently established Museum in Constantinople, in consequence of which the Sultan no longer grants permission for making excavations. But what I could not obtain in spite of three journeys to Constantinople, I got at last through the intercession of my valued friend, the temporary *chargé d'affaires* of the United States to the Sublime Porte—Mr. John P. Brown, the author of the excellent work 'Ancient and Modern Constantinople' (London, 1868).

So on the 27th of September I arrived at the Dardanelles with my firman. But here again I met with difficulties, this time on the part of the before named Achmed Pacha, who imagined that the position of the field which I was to excavate was not accurately enough indicated in the document, and therefore would not give me his permission for the excavations until he should receive a more definite explanation from the Grand Vizier. Owing to the change of ministry which had occurred, a long time would no doubt have elapsed before the matter was settled, had it not occurred to Mr. Brown to apply to his Excellency Kiamil-Pacha, the new Minister of Public Instruction, who takes a lively interest in science, and at whose intercession the Grand Vizier immediately gave Achmed Pacha the desired explanation. This, however, again occupied 13 days, and it was only on the evening of the 10th of October that I started with my wife from the Dardanelles for the Plain of Troy, a journey of eight hours. As, according to the firman, I was to be watched by a Turkish official, whose salary I have to pay during the time of my excavations, Achmed Pacha assigned to me

the second secretary of his chancellary of justice, an Armenian, by name Georgios Sarkis, whom I pay 23 piasters daily.

At last, on Wednesday, the 11th of this month, I again commenced my excavations with 8 workmen, but on the following morning I was enabled to increase their number to 35, and on the 13th to 74, each of whom receives 9 piasters daily (1 franc 80 centimes). As, unfortunately, I only brought 8 wheelbarrows from France, and they cannot be obtained here, and cannot even be made in all the country round, I have to use 52 baskets for carrying away the rubbish. This work, however, proceeds but slowly and is very tiring, as the rubbish has to be carried a long way off. I therefore employ also four carts drawn by oxen, each of which again costs me 20 piasters a day. I work with great energy and spare no cost, in order, if possible, to reach the native soil before the winter rains set in, which may happen at any moment. Thus I hope finally to solve the great problem as to whether the hill of Hissarlik is—as I firmly believe—the citadel of Troy.

As it is an established fact that hills which consist of pure earth and are brought under the plough gradually disappear—that for instance, the Wartsberg, near the

the word حصار (root حصر, to enclose), which has passed from the Arabic into the Turkish—seems also to prove that this is the Pergamus of Ilium; that here Xerxes (in 480 B.C.) offered up 1000 oxen to the Ilian Athena;* that here Alexander the Great hung up his armour in the temple of the goddess, and took away in its stead some of the weapons dedicated therein belonging to the time of the Trojan war, and likewise sacrificed to the Ilian Athena.† I conjectured that this temple, the pride of the Ilians, must have stood on the highest point of the hill, and I therefore decided to excavate this locality down to the native soil. But in order, at the same time, to bring to light the most ancient of the fortifying walls of the Pergamus, and to decide accurately how much the hill had increased in breadth by the *débris* which had been thrown down since the erection of those walls, I made an immense cutting on the face of the steep northern slope, about 66 feet from my last year's work.‡ This cutting was made in a direction due south, and extended across the highest plateau, and was so broad that it embraced the whole building, the foundations of which, consisting of large hewn stones, I had already laid open last year to a depth of from only 1 to 3 feet below the surface. According to an exact measurement, this building, which appears to belong to the first century after Christ, is about 59 feet in length, and 43 feet in breadth. I have of course had all these foundations removed as, being within my excavation, they were of no use and would only have been in the way.

The difficulty of making excavations in a wilderness like this, where everything is wanting, are immense and they increase day by day; for, on account of the steep

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* Herod. VII. 43.

† Strabo, XIII. 1. 8; Arrian, I. 11.; Plutarch, Life of Alexander the Great, viii.

‡ See Plan II., of the Excavations.

slope of the hill, the cutting becomes longer the deeper I dig, and so the difficulty of removing the rubbish is always increasing. This, moreover, cannot be thrown directly down the slope, for it would of course only have to be carried away again; so it has to be thrown down on the steep side of the hill at some distance to the right and left of the mouth of the cutting. The numbers of immense blocks of stone also, which we continually come upon, cause great trouble and have to be got out and removed, which takes up a great deal of time, for at the moment when a large block of this kind is rolled to the edge of the slope, all of my workmen leave their own work and hurry off to see the enormous weight roll down its steep path with a thundering noise and settle itself at some distance in the Plain. It is, moreover, an absolute impossibility for me, who am the only one to preside over all, to give each workman his right occupation, and to watch that each does his duty. Then, for the purpose of carrying away the rubbish, the side passages have to be kept in order, which likewise runs away with a great deal of time, for their inclinations have to be considerably modified at each step that we go further down.

Notwithstanding all these difficulties the work advances

a precaution against the pestilential malaria. All of my workmen are Greeks, from the neighbouring village of Renkoï; only on Sunday, a day on which the Greeks do not work, I employ Turks. My servant, Nikolaos Zaphyros, from Renkoï, whom I pay 30 piasters a day, is invaluable to me in paying the daily wages of the workmen, for he knows every one of them, and is honest. Unfortunately, however, he gives me no assistance in the works, as he neither possesses the gift of commanding, nor has he the slightest knowledge of what I am seeking.

I naturally have no leisure here, and I have only been able to write the above because it is raining heavily, and therefore no work can be done. On the next rainy day I shall report further on the progress of my excavations.

No. 36. A large Trojan Amphora of Terra-cotta (8 M.).

CHAPTER II.

Number of workmen — Discoveries at 2 to 4 meters deep — Greek coins — Remarkable terra-cottas with small stamps, probably *Ex votos* — These cease, and are succeeded by the whorls — Bones of sharks, shells of mussels and oysters, and pottery — Three Greek Inscriptions — The splendid panoramic view from Hissarlik — The Plain of Troy and the heroic *tumuli* — Thymbria: Mr. Frank Calvert's Museum — The mound of Chanaï Tépé — The Scamander and its ancient bed — Valley of the Simoïs, and ruins of Ophrynium.

On the Hill of Hissarlik, October 26th, 1871.

SINCE my report of the 18th I have continued the excavations with the utmost energy, with, on an average, 80 workmen, and I have to-day reached an average depth of 4 meters (13 feet). At a depth of 6½ feet I discovered a well, covered with a very large stone, and filled with rubbish. Its depth I have not been able to ascertain; it belongs to the Roman period, as is proved by the cement with which the

Commodus or of Crispina, and I found one with the following inscription: ΦΑΥΣΤΙΝΑ ƎΚΤΩΡ ΙΛΙΕΩΝ. As far down as 2 meters (6½ feet) I found, as during my last year's excavations in this hill, an immense number of round articles of terra-cotta, red, yellow, grey and black, with two holes, without inscriptions, but frequently with a kind of potter's stamp upon them. I cannot find in the holes of any one of these articles the slightest trace of wear by their having been used for domestic purposes, and therefore I presume that they have served as *Ex votos* for hanging up in the

Nos. 37–39. Stamped Terra-cottas (1¼—2 M.).

temples. Upon most of those bearing a stamp I perceive in it an altar, and above the latter a bee or fly with outspread wings; upon others there is a bull, a swan, a child, or two horses. Curiously enough these articles vanish all at once at a depth of 2 meters (6½ feet), and from this depth downwards I find, in their stead, pieces that are sometimes as round as a ball, exactly the shape of a German humming-top, sometimes in the form of hemispheres, others again in the form of cones, tops (*carrouselen*), or volcanoes. They are from ¾ of an inch to 2¼ inches high and broad, and all the different forms have a hole right through the centre; almost all of them have on one side the most

No. 40. Stamped Terra-cotta (2 M.).

various kinds of decorations encircling the central hole.* With the exception of a few of these objects made of blue stone, from ¾ of an inch to 1½ inch broad, and found at a depth of 3 meters (10 feet), they are all made of terra-cotta, and it is quite evident that the decorations were engraved when the clay was still in a soft state. All are of such excellent clay, and burnt so hard, that I at first believed them to be of stone, and only perceived my mistake after having carefully examined them. In the depth we have now arrived at I also find very many of those elegant round vertebræ which form the backbone of the shark, and of which walking-sticks are often made. The existence of these vertebræ seems to prove that in remote antiquity this sea contained sharks, which are now no longer met with here. To-day I also found upon a fragment of rough pottery the representation of a man's head with large protruding eyes, a long nose, and a very small mouth, which seems clearly to be of Phœnician workmanship.

I also constantly come upon immense quantities of mussel-shells, and it seems as if the old inhabitants of Ilium had been very fond of this shell-fish. Oyster-shells are also found, but only seldom; on the other hand, I find very many fragments of pottery. As far as the depth yet reached, all the buildings which have stood upon this hill

In the quadrangular building already mentioned I found, at a depth of about 5 feet, a slab of marble 25·6 inches in length, the upper part of which is 13·6 inches in breadth, and the lower part 15·36 inches. It contains the following inscription:—

Ἐπειδὴ Διαφένης Πολλέως Τημνίτης, διατρίβων παρὰ τῷ βασιλεῖ, φίλος ὢν καὶ εὔνους διατελεῖ τῷ δήμῳ, χρείας παρεχόμενος προθύμως εἰς ἃ ἄν τις αὐτὸν παρακαλῇ, δεδόχθαι τῇ βουλῇ καὶ τῷ δήμῳ ἐπαινέσαι μὲν αὐτὸν ἐπὶ τούτοις, παρακαλεῖν δὲ καὶ εἰς τὸ λοιπὸν εἶναι φιλότιμον εἰς τὰ τοῦ δήμου συμφέροντα, δεδόσθαι δὲ αὐτῷ πολιτείαν, προξενίαν, ἔγκτησιν, ἀτέλειαν ὧν καὶ οἱ πολῖται ἀτελεῖς εἰσι καὶ ἔφοδον ἐπὶ τὴν βουλὴν πρώτῳ μετὰ τὰ ἱερὰ καὶ ἄφιξιν καὶ ἐμ πολέμῳ καὶ ἐν εἰρήνῃ ἀσυλεὶ καὶ ἀσπονδεί· ἀναγράψαι δὲ τὰ δεδομένα αὐτῷ ταῦτα εἰς στήλην καὶ (ἀνα)θεῖναι ε(ἰς . . . .

The king spoken of in this inscription must have been one of the kings of Pergamus, and from the character of the writing I believe that it must be assigned to the third century before Christ.

At about the same depth, and by the side of the building, I found a second marble slab 16·5 inches in length and 13·4 inches in breadth. The inscription runs as follows:—

Ἰλιεῖς ἔδοσαν Μενελάῳ Ἀῤῥαβαίου Ἀθηναίῳ εὐεργέτῃ γενομένῳ αὐτῶν καὶ περὶ τὴν ἐλευθερίαν ἀνδρὶ ἀγαθῷ γενομένῳ προξενίαν καὶ εὐεργεσίαν.

This second inscription, to judge from the form of the letters, appears to belong to the first century B.C. "Ἀῤῥαβαῖος" here occurs for the first time as an Attic name.

At the same depth, and likewise by the side of the foundations of the same building, I found a third marble slab, nearly 15 inches long and about 14 broad. Its inscription is:—

Μηνόφιλος Γλαυρίου εἶπεν· ἐπειδὴ πλείονες τῶν πολιτῶν ἐπελθόντες ἐπὶ τὴν βουλήν φασιν Χαιρέαν τὸν τεταγμένον ἐπ' Ἀβύδου εὔνουν τε εἶναι τῇ πόλει καὶ ἐνίοις πρεσβευομένοις ὑπὸ τοῦ δήμου πρὸς αὐτὸν βουλόμενον τῇ πόλει χαρίζεσθαι τὴν πᾶσαν σπουδὴν καὶ πρόνοιαν ποεῖσθαι καὶ τοῖς συναντῶσιν αὐτῷ τῶν πολιτῶν φιλανθρώπως προσφέρεσθαι, ἵνα οὖν καὶ ὁ δῆμος φαίνηται τὴν καθήκουσαν χάριν ἀποδιδοὺς τοῖς προαιρουμένοις τὴν πό(λιν) . . . . . δεδόχθαι.

This third inscription also appears to belong to the first century B.C.

It is probable that the building in and around which I discovered these three inscriptions was the Town-hall of Ilium; at all events, it does not appear to have been a temple.

The view from the hill of Hissarlik is extremely magnificent.* Before me lies the glorious Plain of Troy, which, since the recent rain, is again covered with grass and yellow buttercups; on the north-north-west, at about an hour's distance, it is bounded by the Hellespont. The peninsula of Gallipoli here runs out to a point, upon which stands a lighthouse. To the left of it is the island of Imbros, above which rises Mount Ida of the island of Samothrace, at present covered with snow; a little more to the west, on

the latter, on the promontory itself, is the village of Yenishehr. The Plain, which is about two hours' journey in breadth, is thence bounded on the west by the shores of the Ægean, which are, on an average, about 131 feet high, and upon which we see first the sepulchral mound of Festus, the confidential friend of Caracalla, whom the Emperor (according to Herodian, IV.) caused to be poisoned on his visit to Ilium, that he might be able to imitate the funeral rites which Achilles celebrated in honour of his friend Patroclus, as described by Homer (*Iliad*, XXIII.). Then upon the same coast there is another sepulchral mound, called *Udjek-Tépé*, rather more than 78½ feet in height, which most archæologists consider to be that of the old man Æsyetes, from which Polites, trusting to the swiftness of his feet, watched to see when the Greek army would set forth from the ships.* The distance of this mound from the Greek camp on the Hellespont is, however, fully 3½ hours, whereas at a distance of a quarter of an hour a man cannot be seen. Polites, moreover, would not have required to have been very swift-footed to have escaped at a distance of 3½ hours. In short, from the passage in the Iliad this tomb cannot possibly be identified with that of Æsyetes, whether the site of ancient Troy be assigned to the heights of Bunarbashi or to Ilium, where I am digging. Between the last-named mounds we see projecting above the high shores of the Ægean Sea the island of Tenedos.

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* Homer, *Iliad*, II. 790–794 :—

> Ἀγχοῦ δ' ἱσταμένη προσέφη πόδας ὠκέα Ἶρις·
> Εἴσατο δὲ φθογγὴν υἱῖ Πριάμοιο Πολίτῃ,
> Ὃς Τρώων σκοπὸς ἷζε, ποδωκείῃσι πεποιθὼς,
> Τύμβῳ ἐπ' ἀκροτάτῳ Αἰσυήταο γέροντος,
> Δέγμενος ὁππότε ναῦφιν ἀφορμηθεῖεν Ἀχαιοί—

> " Swift Iris stood amidst them, and the voice
> Assuming of Polites, Priam's son,
> The Trojan scout, who, trusting to his speed,
> Was posted on the summit of the mound
> Of ancient Æsyetes, there to watch
> Till from their ships the Grecian troops should march—"

To the south, we see the Plain of Troy, extending again to a distance of two hours, as far as the heights of Bunarbashi, above which rises majestically the snow-capped Gargarus of Mount Ida, from which Jupiter witnessed the battles between the Trojans and the Greeks.* At half-an-hour's distance to the left of Bunarbashi is the beautiful estate of 5000 acres, whose name of Batak is now changed into Thymbria, belonging to my friend Mr. Frederick Calvert. It deserves the change of name for more than one reason; for not only does the river Thymbrius (now Kemer) flow through it, but it comprises the whole site of the ancient town of Thymbria, with its temple of Apollo, among the ruins of which the proprietor's brother, Mr. Frank Calvert—known for his archæological investigations — is making excavations, and has found several valuable inscriptions; among others, an inventory of the temple. This estate further comprises the site of an ancient town, which is apparently encompassed in some places by ramparts; it is covered with fragments of pottery, and in regard to position, distance, &c., corresponds so closely with the statements of Strabo that it must certainly be his "Ἰλιέων κώμη," where, agreeing with the theory of Demetrius of Scepsis, he places the Homeric Troy. At the foot

PENINSULA OF GALLIPOLI.

Kum-Kaleh. Lighthouse. PLATE IV.

Yeni-Shehr on Sigeum Pr.

Hellespont.

Simois.

he Scamander.

OF HISSARLIK.

Snow-clad Summit. PLATE V.

Page 70.

L OF HISSARLIK.

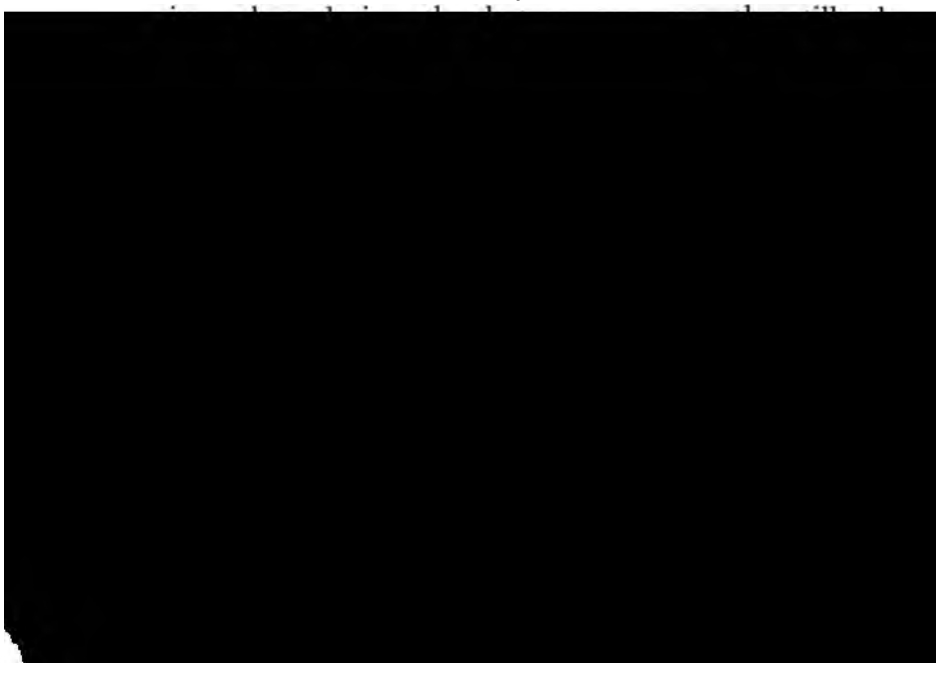
situated directly before the site of "Ἰλιέων κώμη," and that their position corresponds so exactly with the two springs of hot and cold water which existed in front of ancient Troy, and in which the Trojan women used to wash their clothes, convinces Mr. Frederick Calvert that Demetrius of Scepsis and Strabo were right, and that he possesses the actual site of ancient Troy. In order to gain 240 acres of rich land and to make the district more healthy, but especially also in the interest of science, Mr. Calvert has now caused the channels to be opened, and he believes, as the incline is considerable, amounting at least to 53 feet, and the distance from the Hellespont is three hours, that by next summer the whole marsh will be dried up, and the two springs, which are now 5 feet under water, will be brought to light.* I have in vain endeavoured to make Mr. Calvert change his opinion, by seeking to convince him that, according to the Iliad (II. 123-30),† Troy must at least have had 50,000 inhabitants, whereas the site he possesses is scarcely large enough for 10,000; further, that the distance from the Ἰλιέων κώμη to the Hellespont directly contradicts the statements of Homer, for we are told that the Greek troops in one day twice forced their way fighting from the camp to the town, and returned twice, fighting. The distance of the town from the ships, therefore, in my opinion, can at most have been that of one hour (about 3 miles). Mr. Calvert replies that the whole Plain of Troy is alluvial land, and that at the time of the Trojan war its site must have been nearer the Hellespont; but, three years ago, in my work, 'Ithaca, the Peloponnesus, and Troy,' I endeavoured to prove that the Plain of Troy is decidedly not alluvial land.

* This work has now been done. See 'Introduction,' p. 51.

† The 'Introduction' has already shown how Dr. Schliemann changed his opinion as to the magnitude of Troy. Compare also Chapter XXIII. It is hard to see how the vague poetic language of the passage cited furnishes any *data* for the computation in the text.—[Ed.]

Another curiosity of this estate is, that close to the temple of Apollo there exists a round hill, called "Chanaï Tépé," about 32¾ feet in height, and 216½ feet in diameter at its base. It used to be considered a natural hill, till Mr. Frank Calvert, in the year 1856, made a cutting in it, and found upon a flat rock, 16 feet high, a circular space, enclosed by a wall 6½ feet in height. The whole of the inner space, as far as the edge of the surrounding wall, was filled with calcined bones, which the surgeons of the English fleet pronounced to be human bones. In the centre Mr. Calvert found the skeleton of a human being. The whole was covered with about 10 feet of earth.

The Plain of Troy is traversed from the south-east to the north-west by the Scamander, which is distant from Hissarlik 35 minutes' walk, and the bed of which I can recognise from here by the uninterrupted row of trees growing upon its banks. Between the Scamander and Hissarlik, at a distance of only 15 minutes from the latter, the Plain is again intersected by the river Kalifatli-Asmak, which rises in the marshes of Batak (Thymbria), and is filled with running water only in late autumn, winter, and



bed of the Scamander, we may settle the otherwise insurmountable difficulties of the Homeric topography of the Plain of Troy; for, had the Scamander occupied its present bed at the time of the Trojan war, it would have flowed through the Greek camp, and Homer would have had abundant opportunity of speaking of this important circumstance. But as he never mentions a river in the camp, there can, of course, have been none there. Moreover, the Simoïs is now half-an-hour's distance from the Scamander; whereas Homer frequently mentions the confluence of these two streams before Ilium, and most of the battles took place in the fields between Troy, the Scamander, and the Simoïs. At its confluence with the Kalifatli-Asmak, whose enormous bed must, at one time, have belonged to the Scamander, the Simoïs has an especially large and deep bed, which is doubtless still the same that this stream occupied at the time of the Trojan war.

The Kalifatli-Asmak, after its confluence with the Scamander near the village of Kum-köi, turns to the northwest, and flows into the sea by three arms, not very far from the present bed of the Scamander; below the village, however, it has quite a narrow bed, which is obviously of recent formation. Its old channel, on the other hand, which was the ancient bed of the Scamander and is of an immense breadth, proceeds direct northwards from Kum-köi: it is now occupied by the water of the small rivulet called *In-tépé-Asmak*, which I shall afterwards describe minutely, and empties itself, as before said, into the Hellespont close to Cape Rhœteum.

The Scamander did not take possession of its present bed suddenly, but very gradually, probably in the course of many centuries; for between its present channel and its ancient one there are three enormous river-beds, likewise leading to the Hellespont, which possess no water and must necessarily have been successively formed by the

Scamander, as there is no other river here that could have formed them.

To the north-north-east, I overlook another plain, called Chalil-Owasi, half an hour in breadth and 1½ hour in length, which is traversed by the Simoïs and extends to the hill upon which are the mighty ruins of the ancient city of Ophrynium. The coins which have been found there leave no doubt about this. There, close to the Simoïs, was Hector's (so-called) tomb, and a grove sacred to his memory.*

* Lycophron's *Cassandra;* Virgil's *Æneid*, III., 302–305; Strabo, XIII., 1.

No. 41. A great mixing Vessel (κρατήρ), of Terra-cotta, with 4 Handles, about 1 ft. 5 in. high, and nearly 1 ft. 9 in. in diameter (7 M.). (See pp. 157, 262).

CHAPTER III.

Puzzling transitions from the "Stone Age" to a higher civilization — The stone age reappears in force, mixed with pottery of fine workmanship, and the whorls in great number — Conjectures as to their uses: probably *Ex votos* — *Priapi* of stone and terra-cotta: their worship brought by the primitive Aryans from Bactria — Vessels with the owl's face — Boars' tusks — Varied implements and weapons of stone — Hand mill-stones — Models of canoes in terra-cotta — Whetstones — The one object of the excavations, to find TROY.

On the Hill of Hissarlik, November 3rd, 1871.

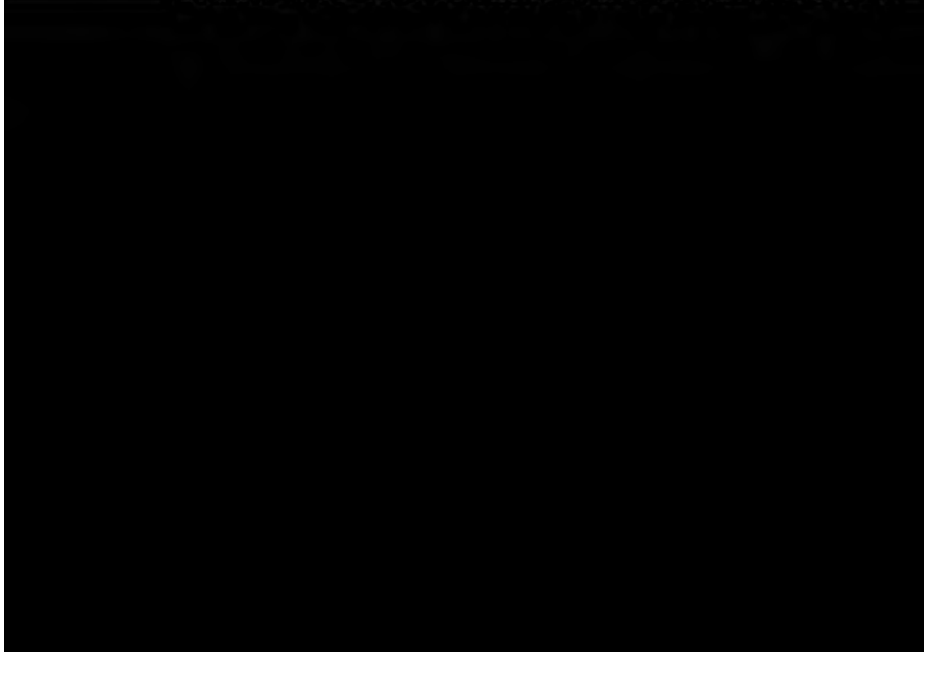
My last communication was dated the 26th of October, and since then I have proceeded vigorously with 80 workmen on an average. Unfortunately, however, I have lost three days; for on Sunday, a day on which the Greeks do not work, I could not secure the services of any Turkish workmen, for they are now sowing their crops; on two other days I was hindered by heavy rains.

To my extreme surprise, on Monday, the 30th of last month, I suddenly came upon a mass of *débris*, in which I found an immense quantity of implements made of hard black stone (diorite), but of a very primitive form. On the following day, however, not a single stone implement was found, but a small piece of silver wire and a great deal of broken pottery of elegant workmanship, among others the fragment of a cup with an owl's head. I therefore thought I had again come upon the remains of a civilized people, and that the stone implements of the previous day were the remains of an invasion of a barbarous tribe, whose dominion had been of but short duration. But I was mistaken, for on the Wednesday the stone period reappeared in even

greater force, and continued throughout the whole of yesterday. To-day, unfortunately, no work can be done owing to the heavy downpour of rain.

I find much in this stone period that is quite inexplicable to me, and I therefore consider it necessary to describe everything as minutely as possible, in the hope that one or other of my honoured colleagues will be able to give an explanation of the points which are obscure to me.

In the first place, I am astonished that here on the highest point of the hill, where, according to every supposition the noblest buildings must have stood, I come upon the stone period as early as at a depth of 4½ meters (about 15 feet), whereas last year, at a distance of only 66 feet from the top of the hill, I found in my cutting, at the depth of more than 16 feet, a wall, 6½ feet thick, and by no means very ancient, and no trace of the stone period, although I carried that cutting to a depth of more than 26 feet. This probably can be explained in no other way than that the hill, at the place where the wall stands, must have been very low, and that this low position has been gradually raised by the *débris*.



upon a potter's wheel, and yet it appears to me that they could not have been made without the aid of some kind of machine, such as, on the other hand, could not have been produced by the rude stone implements of the period.

I am further surprised to find, in this stone period, and more frequently than ever before, those round articles with a hole in the centre, which have sometimes the form of humming-tops or whorls (*carrouselen*), sometimes of fiery mountains. In the last form they bear, on a small scale, the most striking resemblance to the colossal sepulchral mounds of this district, which latter, both on this account and also because stone implements have been found in one of them (the Chanaï Tépé) belong probably to the stone period, and therefore perhaps to an age thousands of years before the Trojan war.* At a depth of 3 meters (about 10 feet), I found one of these objects made of very fine marble: all the rest are made of excellent clay rendered very hard by burning; almost all of them have decorations, which have evidently been scratched into them when the clay was as yet unburnt, and which in very many cases have been filled with a white substance, to make them more striking to the eye. It is probable that at one time the decorations upon all of these objects were filled with that white substance, for upon many of them, where it no longer exists, I see some traces of it. Upon some of the articles of very hard black clay without decorations, some hand has endeavoured to make them after the clay had been burnt, and, when looked at through a magnifying glass, these marks leave no doubt that they have been laboriously scratched with a piece of flint.

The question then forces itself upon us: *For what were*

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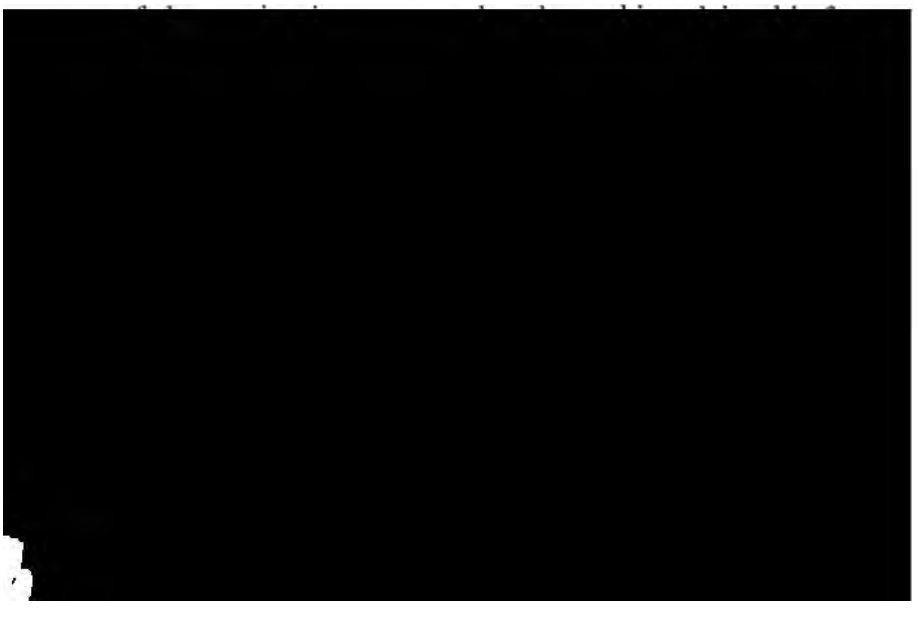
* For the further and most interesting discoveries which speedily led Dr. Schliemann to recal this conjecture, and which have affected all previous theories about the ages of stone and bronze, see the beginning of Chapter IV.

these objects used? They cannot possibly have been employed in spinning or weaving, or as weights for fishing-nets, for they are too fine and elegant for such purposes; neither have I as yet been able to discover any indication that they could have been used for any handicraft. When, therefore, I consider the perfect likeness of most of these objects to the form of the heroic sepulchral mounds, I am forced to believe that they, as well as those with two holes which occurred only at a depth of 6½ feet, were used as *Ex votos*.

Again, to my surprise, I frequently find the Priapus, sometimes represented quite true to nature in stone or terra-cotta, sometimes in the form of a pillar rounded off at the top (just such as I have seen in Indian temples, but there only about 4 inches in length). I once also found the symbol in the form of a little pillar only about 1 inch in length, made of splendid black marble striped with white and beautifully polished, such as is never met with in the whole of this district. I consequently have not the slightest doubt that the Trojan people of the stone period worshipped Priapus as a divinity, and that, belonging to the Indo-Germanic race, they brought this religion from Bactria; for in India, as is well known, the god of production and



men of the stone period, with their imperfect weapons, were able to kill wild boars. Their lances—like all their other weapons and instruments—are, it is true, made of very hard black or green stone, but still they are so blunt that it must have required a giant's strength to kill a boar with them. Hammers and axes are met with of all sizes and in great numbers.* I likewise find very many weights of granite, also a number of hand-mills of lava, which consist of two pieces about a foot in length, oval on one side and flat on the other, between which the corn was crushed. Sometimes these mill-stones are made of granite. Knives are found in very great numbers; all are of flint, some in the form of knife-blades, others—by far the greater majority—are jagged on one or on both sides, like saws. Needles and bodkins made of bone are of frequent occurrence, and sometimes also small bone spoons. Primitive canoes, such as I frequently saw in Ceylon, formed out of a hollowed trunk of a tree, are often met with here in miniature, made of terra-cotta, and I presume that these small vessels may have served as salt-cellars or pepper-boxes. I likewise find a number of whetstones about 4 inches in length and nearly as much in breadth, which are sometimes made of clay, sometimes of green or black slate; further, a number of round, flat stones a little under and over two inches in diameter, painted red on one side; also many hundreds of round terra-cottas of the like size and shape, with a hole in the centre, and which have evidently been made out of fragments of pottery, and may have been used on spindles. Flat stone mortars are also met with.

I also find in my excavations a house-wall of the stone period, consisting of stones joined by clay, like the buildings which were discovered on the islands of Therasia and Thera

* The stone implements here described are so similar in form to the better-made objects of the same sort, exhibited in subsequent illustrations, that it seems superfluous to engrave them here.—[Ed.]

(Santorin) under three layers of volcanic ashes, forming together a height of 68 feet.

My expectations are extremely modest; I have no hope of finding plastic works of art. The single object of my excavations from the beginning was only to find Troy, whose site has been discussed by a hundred scholars in a hundred books, but which as yet no one has ever sought to bring to light by excavations. If I should not succeed in this, still I shall be perfectly contented, if by my labours I succeed only in penetrating to the deepest darkness of pre-historic times, and enriching archæology by the discovery of a few interesting features from the most ancient history of the great Hellenic race. The discovery of the stone period, instead of discouraging me, has therefore only made me the more desirous to penetrate to the place which was occupied by the first people that came here, and I still intend to reach it even if I should have to dig another 50 feet further down.

Note.—The "Stone Period" described in this chapter seems to be that of the *third stratum* upwards from the rock (4 to 7 meters, or 13 to 23 feet deep); but the description does not make this perfectly clear.—[ED.]

CHAPTER IV.

Another passage from the Stone Age to copper implements mixed with stone — The signs of a higher civilization increase with the depth reached — All the implements are of better workmanship — Discovery of supposed inscriptions — Further discussion of the use of the whorls — TROY still to be reached — Fine terra-cotta vessels of remarkable forms — Great numbers of stone weights and hand mill-stones — Numerous house-walls — Construction of the great cutting — Fever and quinine — Wounds and arnica.

On the Hill of Hissarlik, November 18th, 1871.

SINCE my report of the 3rd of this month I have continued my excavations with the greatest zeal, and although interrupted sometimes by the rain, and sometimes by Greek festivals, and also in spite of the continually increasing difficulty in removing the rubbish, I have now reached an average depth of 10 meters or about 33 English feet.* Much that was inexplicable to me has now become clear, and I must first of all correct an error made in my last report, that I had come upon the stone period. I was deceived by the enormous mass of stone implements of all kinds which were daily dug up, and by the absence of any trace of metal, except two copper nails, which I believed to have come in some way from one of the upper strata into the deeper stratum of the stone period. But since the 6th of this month there have

* This depth of 10 meters, or 33 feet, is that which Dr. Schliemann came to regard as the *lower* limit of the ruins of the true heroic Troy. The depth of 7 meters, or 23 feet, presently mentioned is the *upper* limit of the same stratum. (See the Introduction and the later Memoirs.)—[ED.]

appeared not only many nails, but also knives, lances, and battle-axes of copper of such elegant workmanship that they can have been made only by a civilized people.

No. 45. Copper Implements and Weapons from the Trojan stratum (8 M.).
a, Axe of an unusual form; *b*, *c*, Battle-Axes of the common form; *d*, *e*, *g*, Knives; *f*, a Nail.*

Hence I must not only recal my conjecture that I had reached the stone period, but I cannot even admit that I have reached the bronze period, for the implements and weapons which I find are too well finished. I must, moreover, draw attention to the fact, that the deeper I dig, from 7 meters (23 feet) downwards, the greater are the indications of a higher civilization. At a depth of from 4 to 7 meters (13 to 23 feet) the stone implements and weapons were of a coarse description; the knives were of flint, generally in the form of small saws, and rarely in that of a blade; but there were a very great number of sharp pieces of silex, which must likewise have served as knives. Since

No. 46. A Mould of Mica-schist for casting Copper Implements (8 M.).

* These, like all the objects of copper found at Troy, are coated with verdigris and malachite. (Letter-press to the Atlas.)

then, however, the stone implements, such as hammers and axes, are of much better workmanship; there still occur a quantity of silex knives in the form of saws, but they are much better made than those of the upper strata, and at a depth below 23 feet double-edged knife-blades of obsidian, which are so sharp that they might serve as razors. In

No. 47. No. 48. No. 49. No. 50.

Stone Instruments from the Trojan stratum (8 M.).
Nos. 47, 48, 49, of Green Stone, probably Lance-Heads; No. 50, of Diorite, use unknown.

these depths, moreover, as I have already said, we again meet with weapons and quantities of nails, knives, and implements of copper.

But what above all other circumstances seems to prove that I never reached the stone period, and that, after digging further down into the strata of rude races between 13 and 23 feet, I have again come upon the remains of a more civilized nation, are two inscriptions, one of which, found at a depth of $7\frac{1}{2}$ meters (about 25 feet), seems to be Phœnician, but consists of only about five letters, which have been scratched by a pointed instrument, into that side of a small terra-cotta disc which had been painted white, the disc being only about $2\frac{1}{3}$ inches in diameter. The letters, in any case, must have stood out very distinctly in the white colour, but the greater portion of it has disappeared, and thus two of the five written characters cannot

easily be distinguished. I hope, however, that the inscription may nevertheless be deciphered.*

The other inscription was found at a depth of 8½ meters (27¾ feet) upon one of those small round articles of terra-cotta with a hole in the centre, which, from a depth of 6½ feet downwards, occur in immense numbers in the form of the humming-top, the carrousel, and the volcano. I have already expressed my opinion that they may have been used as *Ex votos*, and I may now suggest whether they might not even have been idols, and especially whether those in the form of a volcano do not represent Hephæstus? This thought struck me principally from the great resemblance between these objects and the colossal sepulchral mounds on the Plain of Troy, which cover the ashes of the corpses of the heroes, which were burnt by the fire of Hephæstus. At all events, the decorations introduced upon all of these objects—which seem to have been executed with very great care, especially on those made of immensely hard burnt terra-cotta—and also the white substance with which these decorations are filled so as to be more striking to the eye, leave no doubt that they have served important purposes. It was upon one of these small articles of terra-cotta, in the form of a

Upon an ordinary stone I at the same time found the aracter ⅄. I should be immensely delighted if any ie were able to read these inscriptions, and thus be in position to give an explanation about the use of these markable objects, about the people who made them, and out the epoch in which I found myself at the depth of m 25 to 28 feet.

When, at the time of writing my last report, I saw ne implements and weapons brought to light, and none it stone, and was forced to believe that I had penetrated to the stratum of the people belonging to the stone riod, I really began to fear that the actual object of my cavations, to find here the Pergamus of Priam, had failed; at I had already reached a period long anterior to the rojan war, and that the colossal sepulchral mounds in e Plain of Troy were perhaps thousands of years older an the deeds of Achilles. But as I find ever more and ore traces of civilization the deeper I dig, I am now per-:tly convinced that I have not yet penetrated to the riod of the Trojan war, and hence I am more hopeful an ever of finding the site of Troy by further excava-ns; for if there ever was a Troy—and my belief in is is firm—it can only have been here, on the site of um. I think that my excavations of 1868 on the ights of Bunarbashi have proved the impossibility of city or even a village ever having stood there, except the extreme end of Balidagh, where Consul Hahn has ide excavations, but where, owing to the small space, iich is limited by precipices, there can only have been a all town of 2000 inhabitants at most. Upon the site of : Ἰλιέων κώμη, which place was regarded as the site ancient Troy by Strabo—who had never visited the iin of Troy—in accordance with the theory of Deme-is of Scepsis, which I discussed in my report of the 26th last month—I have, since Tuesday the 21st, employed workmen to lay bare a portion of the surrounding wall

which seems to be indicated by a low but long rise of the ground. I do this, however, simply in the interest of science, and I am far from fancying that I shall find Troy there.

I must also add, in regard to the round articles of terra-cotta, that, after a depth of 7 meters (23 feet), those in the form of the volcano occur less frequently, and almost all are the shape of the top (*carrousel*). At this depth also, the idols of Vishnu, in the form of the Priapus, are no longer

No. 51. No. 52.

Trojan Terra-cottas (8 M.).

No. 51. A Vase-cover. No. 52. A Two-handled Cup.

met with. But I still very frequently find at a depth below 23 feet the owl's head on the earthen vessels, which, although only of one colour and without any decorations, are elegant in their simplicity, and become the more elegant and finer the deeper I dig. I have to draw especial attention to the bright red cups, which are sometimes found in the form of a bell with a kind of coronet below,*

* These cups, as already observed, are really covers of vases, the "coronet" being the upper, instead of the under part.—[ED.]

sometimes in the shape of immense champagne-glasses with two large handles. In neither form can they stand upon the lower end like the cups of the present day, but only upon the upper part, just as we should be obliged to set down a bell, if we used it as a drinking-cup. I must next mention the small pots with three little feet, and the large ones with a neck bent back, then the large vessels with two handles and two others in the form of upraised arms; and, lastly, the very large funereal urns, frequently more than a meter (3¼ feet) in height and breadth, which are met with in such numbers that they hinder us in our work, but which have hitherto been so much broken that I have been unable to save even one of them. It is impossible to cement together

No. 53. Small Trojan Vase (9 M.).

Nos. 54, 55. Trojan Terra-cotta Vases (8 M.).

the pieces of these broken urns, as the clay is from an inch and a half to nearly 2 inches thick.

At a depth below 6 meters (nearly 20 feet) down to the depth of 10 meters (33 feet), we find a great many pieces of clay an inch and a half thick, from about 4 to 5 inches in height, and from about 3 to 4 inches

in breadth, with a perforated hole, either on the broad upper side or on the narrow side, and which appear to have been used as weights; we also frequently meet with cylinders of the same clay, which are from 3½ inches in length to 2½ inches in breadth. The enormous quantities of stone weights and hand-mills of lava, continually brought to light, give an idea of the number of the houses, through the ruins of which I daily penetrate. I have placed great numbers of these mills and other stone implements in the niches of the walls in my excavations for the inspection of the admirers of Homer who may visit the Plain of Troy.

At a depth of from 8 to 10 meters (26 to 33 feet), I have found numerous fragments of a substance, about 2¾ inches broad and 1¾ thick, which is on the inside as hard as stone and of a resinous colour, and on the outside it has a brilliant gloss, which has evidently been produced artificially. It has clearly been poured into a mould when in a liquid state, for it is channelled on all four sides. Doubtless in the continuation of my excavations I shall obtain an explanation of how these pieces (the length of which I do not yet know, as I have hitherto only met with fragments) were made, and what they were used for.*

at an angle of 85 degrees; in all other places it is at an angle of 67½ degrees. In order to make this more clear, I may add that my walls of 33 feet high at an angle of 85 degrees deviate only about 25½ inches, but those of 67½ degrees deviate about 8½ feet from the perpendicular.

It would give me much pleasure if, in my next communication, I could report some very interesting discovery.

November 21st.—The heavy rainfall of yesterday and the day before, which continued till this morning, rendered it impossible to dispatch this report before the evening; for I am here living in a wilderness at eight hours' distance from the nearest post-office, that is, from the Dardanelles. I hope that the ground will have become sufficiently dry by to-morrow morning for me to proceed with my work. I intend, at all events, to continue the excavations till the appearance of winter, and then to begin again in April.

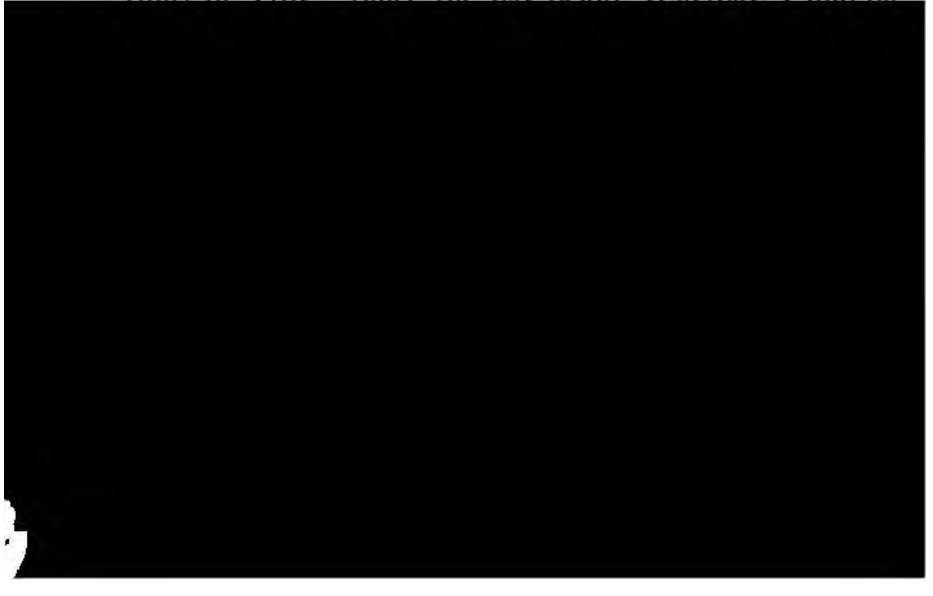
The constant warm damp weather produces a very malignant fever, and my services as a doctor are daily sought. Fortunately, I have a large stock of quinine by me, and can thus help everyone. But as I do not understand anything about medicine I should, no doubt, make great mistakes. Fortunately, however, I remember that once when I was at the point of death with a fever contracted in the marshes of Nicaragua, the excellent German physician, Tellkampf of New York, saved my life by a dose of 64 grains of quinine. Hence I give a similar quantity here, but only *in one dose* when the case is a very bad one; the quantity I generally give is four doses of 16 grains. I am also daily called upon not only to cure wounded men, but camels, donkeys, and horses. I have hitherto been successful in all cases by using tincture of arnica. I have also, thus far, cured all the fever patients who have applied for my help. Not one of them, however, has ever come to thank me; indeed, gratitude does not appear to be one of the virtues of the present Trojans.

CHAPTER V.

Interruptions from Rain — Last works of the season, 1871 — The supposed ruins of Troy reached — Great blocks of stone — Engineering contrivances — Excavations at the "Village of the Ilians:" no traces of habitation, and none of hot springs — Results of the excavations thus far — Review of the objects found at various depths — Structure of the lowest houses yet reached — Difficulties of the excavations — The object aimed at — Growth of the Hill of Hissarlik.

On the Hill of Hissarlik, November 24th, 1871.

SINCE my last report, of the 18th and 21st instant, I have had three days' work in spite of the continual wet weather; but unfortunately I find myself now compelled to cease the excavations for the winter, intending to begin again on the 1st of April, 1872. It is not likely that winter will set in before the middle of December, and I should gladly have continued my work till then, in spite of the rain, especially as I now most firmly believe that I am already among the ruins of Troy. Since the day before yesterday I find on



no longer wide enough for carrying away such enormous blocks of stone, and it must first of all be made at least 13 feet wider. This is, however, a gigantic piece of work, which, owing to the daily rain, I dare not venture to begin with winter close upon me.

On account of the many huge stones, no terra-cottas were found either yesterday or on the preceding day. To day, however, during the last hour's work, I found a small pot, only about 2 inches high, with three feet; the whole of the upper portion is in the form of a globe, and is divided into five large and five small fields, changing alternately in regular succession. All of the large fields are filled with imprinted little stars. The mouth or opening is only about $\frac{1}{3}$ of an inch in diameter. I presume that this small and wonderful Trojan vessel was used by ladies for holding scented oil, which we know was applied after the bath. It cannot have been used as a lamp, for Homer, who lived 200 years after the destruction of Troy, does not as yet know of lamps. I also found this morning two copper arrow-heads, and one of those small terra-cotta "volcanoes," which for some days have been less frequently met with. Further, a small leaden plate, nearly an inch and a half in length as well as in breadth, with the character ρ in the centre and a hole in one corner, which leaves no doubt that the small piece used to be hung up.

Although the word γράφειν only occurs twice in Homer, and both times only signifies "to scratch into," yet I am firmly convinced that an alphabetical language was known in ancient Troy, and I cherish the hope of being able next spring to discover inscriptions and other monuments, which will leave no doubt, that, since yesterday, at the depth of 33 feet,* I have begun to uncover the ruins of the city of Troy, so long looked for theoretically and

* This refers to the *lowest* of the *strata*, which Dr. Schliemann long took for the ruins of the Homeric Troy.—[ED.]

now at last practically. All the objects that I find, I shall, of course, describe in the most faithful and careful manner.

My excavations at the village of the Ilians (Ἰλιέων κώμη), as was to be expected, have decidedly turned out unfavourable for Strabo and Demetrius of Scepsis; for the steep continuous elevation contains no trace of walls, and consists of coarse sand without the slightest admixture of *débris*. Neither do I believe, contrary to the assertion of the proprietor of Thymbria, my worthy friend Mr. Frederick Calvert, in the existence of a hot spring at the foot of the hill of the Ἰλιέων κώμη, for I have now searched the whole marsh, with a thermometer in my hand, and I nowhere find, either in the stagnant or the running water, the faintest difference in temperature. Of cold springs there are certainly more than one, but it will be impossible to state how many till the marsh has been thoroughly drained; it consists at present of floating islands.

Now when I collect the result of my excavations:— I found close to the surface only, and in rare cases as far as a depth of 1 meter (3¼ feet), copper medals of Sigeum, Alexandria Troas and Ilium, the latter belonging to the

of 3 meters only (nearly 10 feet), were frequently met with in blue stone, but were in all other cases of terra-cotta, and almost all of them with decorations. At 6½ feet below the surface I found a Roman well, which I dug out to a depth of more than 36 feet, but which seems to be sunk down as far as the Plain. At all depths we met with many mussel-shells, boars' tusks, and fish-bones; but the bones of sharks only at the depth of from 11 to 13 feet below the surface. The ruins of houses built of hewn stone, joined with cement or lime, seldom extend lower than 3¼ feet, and the ruins of buildings built of large hewn stones not joined by any kind of cement, never below 6½ feet: visitors to the Plain of Troy can convince themselves of this with their own eyes, by looking at the walls of my cuttings. From a depth of 3 to 4 meters (6½ to 13 feet) downwards, we met with few or no stones; and the calcined ruins of innumerable layers of *débris* seem to prove that all of the buildings which existed there during the course of centuries were built of wood, and were destroyed by fire. Consequently in these depths I have hitherto only found fragments of good earthenware; the only things brought out in an uninjured condition were small pots of the coarsest description.

At a depth of 4 meters (13 feet), I found a fragment of pottery with a drawing of a bust, of Phœnician workmanship. Directly upon it were an immense quantity of stone implements and weapons of hard black stone, which continued to a depth of 7 meters (23 feet). Simultaneously with these, but extending to a depth of 10 meters (33 feet), I found elegant pottery of one colour and without any kind of ornament beyond the owl's face; small pots and vases of a larger size with three little feet; then, but only as far as a depth of 23 feet, the Priapus of terra-cotta in its natural form, and also in the form of a pillar rounded off at the top. From 4 to 7 meters (13 to 23 feet) deep, there were a great many flint knives, the majority of which have the shape of saws, or

consist only of sharp pieces, rarely in the form of blades; needles and little spoons made of bone, as well as an enormous number of terra-cotta discs with a hole through the centre; and two copper nails. As is proved by the numerous

No. 56.

No. 57.

No. 58.

No. 59.

No. 60.

No. 61.

Stone Implements of the earliest Settlers (11 and 14 M.).

Nos. 56 and 57. An Axe and Hammer of Diorite. Nos. 58, 59, 60. Knives of White Silex.
No. 61. Probably an Arrow-head.

house-walls which I have cut through in these depths, many of which are in the earth-wall of my excavations, the houses were built of small stones joined with earth. From 7 to 10 meters (23 to 33 feet), I found a great many copper nails, frequently 5 inches in length, and a few lances and

battle-axes of elegant workmanship. At every foot of earth that we dig down, after a depth of 23 feet, we find the traces of a much higher civilization; stone weapons are still occasionally met with, but they are of splendid workmanship. I found many copper knives, but also immense numbers of flint knives, which, however, are incomparably better made than those of the preceding strata. We also found, although not often, very sharp double-edged knife-blades of obsidian, 2¾ inches in length. The pots and vases continue

No. 62. Small Trojan Vase of Terra-cotta, with Decorations (8 M.).

No. 63. A Trojan Vase-cover of red Terra-cotta (7 M.).

to be more elegant; there were also bright red vase-covers in the form of a bell with a coronet above, or like gigantic champagne glasses with two large handles; very many elegant vessels with or without three little feet, but with little rings on the sides and holes in the mouth in the same direction, so that they could not only stand, but also be carried on a cord; likewise a number of very small vases with three little feet. All the terra-cottas are of a brilliant red, yellow, green, or black colour; only the very large urns are colourless. From 2 to 10 meters deep (6½–33 feet) we note the complete absence of painting. At a depth

of 7½ meters (24¾ feet) was a small terra-cotta disc with five letters, which I consider to be Phœnician; at 28 feet one of those frequently mentioned terra-cottas in the form of a top with six written characters. At the same depth, upon a stone, one letter, which to all appearance belongs to a different language; and lastly, at a depth of 10 meters, or 33 English feet, a leaden plate with one letter.

Now as regards the construction of the houses belonging to the strata at a depth of from 7 to 10 meters (23 to 33 feet), only the foundations and thresholds were composed of large stones—as anyone may convince himself by a glance at the earthen walls of my excavations. The house-walls, on the other hand, were composed of unburnt sun-dried bricks. At a depth of 10 meters (33 feet), I again found the buildings to be of stone, but of colossal proportions. Most of the stones are very large, many of them hewn, and we meet with a great many massive blocks. It appears to me that I have already brought to light several walls at this depth; but I have unfortunately not yet succeeded in arriving at an opinion as to how they were actually built and what their thickness was. The stones of the walls seem to me to have been separated

last lying before me, to prove that the Iliad is founded on facts, and that the great Greek nation must not be deprived of this crown of her glory. I shall spare no trouble and shun no expense to attain this result.

I must still draw attention to the remarkable growth of this hill. The huge square stones of the foundations of the house on the summit of the hill (where I found the inscription which appears to belong to the third century B.C.), which in its day must have been on the surface, are now in some places only 13 inches, in others only 3¼ feet below the earth. But as the colossal ruins, which I positively maintain to be those of ancient Troy, lie at a depth of 33 feet, the accumulation of *débris* on this part must have amounted to more than 30 feet during the first 1000 years, and only from 1 to 3 feet during the last 2000 years.

But, strange to say, on the north side of the hill, with its steep declivity, at the place where I am digging, the thickness of the hill has not increased in the slightest degree. For not only do the ruins of the innumerable habitations in all cases extend to the extreme edge of the declivity, but I also find up to this point the same objects that I find on the same horizontal line as far as the opposite end of my excavations. Hence it is interesting to know that the declivity of the hill on the north side was exactly as steep at the time of the Trojan war as it is now, namely, that even at that time it rose at an angle of 40 degrees.

No. 64. A stone Implement of unknown use. Weight 472 grammes. (2 M.)

No. 65. A strange Vessel of Terra-cotta (15 M.).

WORK AT HISSARLIK IN 1872.

CHAPTER VI.

New assistants for 1872 — Cost of the excavations — Digging of the great platform on the North — Venomous snakes — A supporting buttress on the North side of the hill — Objects discovered : little idols of fine marble—Whorls engraved with the *svastika* and 卍 — Significance of these emblems in the old Aryan religion — Their occurrence among other Aryan nations — Mentioned in old Indian literature — Illustrative quotation from Émile Burnouf.

On the Hill of Hissarlik, April 5th, 1872.

My last report was dated November 24th, 1871. On the first of this month, at 6 o'clock on the morning of a glorious day, accompanied by my wife, I resumed the excavations with 100 Greek workmen from the neighbouring villages of Renkoï, Kalifatli, and Yenishehr. Mr. John Latham, of Folkestone, the director of the railway from the Piræus to Athens, who by his excellent management brings the shareholders an annual dividend of 30 per

there are other considerable expenses to be defrayed, so that the total cost of my excavations amounts to no less than 300 fr. (12*l.*) daily.

Now in order to be sure, in every case, of thoroughly solving the Trojan question this year, I am having an immense horizontal platform made on the steep northern slope, which rises at an angle of 40 degrees, a height of 105 feet perpendicular, and 131 feet above the level of the sea. The platform extends through the entire hill, at an exact perpendicular depth of 14 meters or 46½ English feet, it has a breadth of 79 meters or 233 English feet, and embraces my last year's cutting.* M. Laurent calculates the mass of matter to be removed at 78,545 cubic meters (above 100,000 cubic yards): it will be less if I should find the native soil at less than 46 feet, and greater if I should have to make the platform still lower. It is above all things necessary for me to reach the primary soil, in order to make accurate investigations. To make the work easier, after having had the earth on the northern declivity picked down in such a manner that it rises perpendicularly to the height of about 8½ feet from the bottom, and after that at an angle of 50 degrees, I continue to have the *débris* of the mighty earth wall loosened in such a manner that this angle always remains exactly the same. In this way I certainly work three times more rapidly than before, when, on account of the small breadth of the channel, I was forced to open it on the summit of the hill in a direct horizontal direction along its entire length. In spite of every precaution, however, I am unable to guard my men or myself against the stones which continually come rolling down, when the steep wall is being picked away. Not one of us is without several wounds in his feet.

During the first three days of the excavations, in

* See the Frontispiece and Plan II.

digging down the slope of the hill, we came upon an immense number of poisonous snakes, and among them a remarkable quantity of the small brown vipers called *antelion* (Ἀντήλιον), which are scarcely thicker than rain worms, and which have their name from the circumstance that the person bitten by them only survives till sunset. It seems to me that, were it not for the many thousands of storks which destroy the snakes in spring and summer, the Plain of Troy would be uninhabitable, owing to the excessive numbers of these vermin.

Through the kindness of my friends, Messrs. J. Henry Schröder and Co., in London, I have obtained the best English pickaxes and spades for loosening and pulling down the rubbish, also 60 excellent wheel-barrows with iron wheels for carrying it away.

For the purpose of consolidating the buildings on the top of the hill, the whole of the steep northern slope has evidently been supported by a buttress, for I find the remains of one in several places. This buttress is however not very ancient, for it is composed of large blocks of shelly limestone, mostly hewn, and joined with lime or cement. The remains of this wall have only a slight covering of earth; but on all other places there is more

crosses on the under side, were found in the terramares of Castione and Campeggine,* and are now in the Museum of Parma. Many of these Trojan articles, and especially those in the form of volcanoes, have crosses of the most various descriptions, as may be seen in the lithographed

Nos. 66, 67, 68. Trojan Sling-bullets of Loadstone (9 and 10 M.).

drawings.† The form ⊕ occurs especially often; upon a great many we find the sign 卐, of which there are often whole rows in a circle round the central point. In my earlier reports I never spoke of these crosses, because their meaning was utterly unknown to me.

This winter, I have read in Athens many excellent works of celebrated scholars on Indian antiquities, especially Adalbert Kuhn, *Die Herabkunft des Feuers;* Max Müller's *Essays;* Émile Burnouf, *La Science des Religions* and *Essai sur le Vêda*, as well as several works by Eugène Burnouf; and I now perceive that these crosses upon the Trojan terra-cottas are of the highest importance to archæology. I therefore consider it necessary to enter more fully into the subject, all the more so as I am now able to prove that both the ⊕ and the 卐, which I find in Émile Burnouf's Sanscrit lexicon, under the name of "suastika," and with the meaning εὖ ἐστι, or as the sign of good wishes, were already regarded, thousands of years before

* Gabriel de Mortillet, *Le Signe de la Croix avant le Christianisme.*

† Plates XXI. to LII. at the end of the volume.

Christ, as religious symbols of the very greatest importance among the early progenitors of the Aryan races in Bactria and in the villages of the Oxus, at a time when Germans, Indians, Pelasgians, Celts, Persians, Slavonians and Iranians still formed one nation and spoke one language. For I recognise at the first glance the "suastika" upon one of those three pot bottoms,* which were discovered on Bishop's Island near Königswalde on the right bank of the Oder, and have given rise to very many learned discussions, while no one recognised the mark as that exceedingly significant religious symbol of our remote ancestors. I find a whole row of these "suastikas" all round the famous pulpit of Saint Ambrose in Milan; I find it occurring a thousand times in the catacombs of Rome.† I find it in three rows, and thus repeated sixty times, upon an ancient Celtic funereal urn discovered in Shropham in the county of Norfolk, and now in the British Museum.‡ I find it also upon several Corinthian vases in my own collection, as well as upon two very ancient Attic vases in the possession of Professor Kusopulos at Athens, which are assigned to a date as early, at least, as 1000 years before Christ. I likewise find it upon several ancient coins of Leucas, and in the large

Rama—in which he carried his troops across the Ganges on his expedition of conquest to India and Ceylon—bore the 卍 on their prows. Sanscrit scholars believe that this heroic epic (the *Ramayana*) was composed at the latest 800 years before Christ, and they assign the campaign of Rama at the latest to the thirteenth or fourteenth century B.C., for, as Kiepert points out in his very interesting article in the *National-Zeitung*, the names of the products mentioned in the 2nd Book of Kings, in the reign of King Solomon, as brought by Phœnician ships from Ophir, as for example, ivory, peacocks, apes and spices, are Sanscrit words with scarcely any alteration. Hence we may surely regard it as certain, that it took at least three or four centuries before the language of the conquerors was generally introduced into the immensely large and densely peopled country of India, especially as the number of the conquerors cannot have been very large. In the myths of the Rigvêda, which were written before the expedition into Northern India (*Heptopotamia*), the Aryan population is always represented as inconsiderable in numbers.

No. 69. The Foot-print of Buddha.

Émile Burnouf, in his excellent work *La Science des Religions*, just published, says, "The 卍 represents the two pieces of wood which were laid cross-wise upon one

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likewise frequently repeated (comp. the lithographed whorls, Nos. 330, 339, &c.), and the central circles show a close resemblance to some of the Trojan whorls.—[ED.]

another before the sacrificial altars in order to produce the holy fire (*Agni*), and whose ends were bent round at right angles and fastened by means of four nails, 卐, so that this wooden scaffolding might not be moved. At the point where the two pieces of wood were joined, there was a small hole, in which a third piece of wood, in the form of a lance (called *Pramantha*) was rotated by means of a cord made of cow's hair and hemp, till the fire was generated by friction. The father of the holy fire (*Agni*) is Twastri, *i. e.* the divine carpenter, who made the 卐 and the Pramantha, by the friction of which the divine child was produced. The Pramantha was afterwards transformed by the Greeks into Prometheus, who, they imagined, stole fire from heaven, so as to instil into earth-born man the bright spark of the soul. The mother of the holy fire is the divine Mâjâ, who represents the productive force in the form of a woman; every divine being has his Mâjâ. Scarcely has the weak spark escaped from its mother's lap, that is from the 卐, which is likewise called mother, and is the place where the divine Mâjâ principally dwells—when it (Agni) receives the name of child. In the Rigvêda we find hymns of heavenly beauty in praise of this new-born weak divine creature

pale in the glory of the new-born god (Agni) and to worship him. But how did this transfiguration of Agni take place? At the moment when one priest laid the young god upon the altar, another poured the holy draught, the spiritual "sôma" upon its head, and then immediately anointed it by spreading over it the butter of the holy sacrifice. By being thus anointed Agni receives the name of the Anointed (*akta*); he has, however, grown enormously through the combustible substances; rich in glory he sends forth his blazing flames; he shines in a cloud of smoke which rises to heaven like a pillar, and his light unites with the light of the heavenly orbs. The god Agni, in his splendour and glory, reveals to man the secret things; he teaches the Doctors; he is the Master of the masters, and receives the name of Jâtavêdas, that is, he in whom wisdom is in-born.

Upon my writing to M. É. Burnouf to enquire about the other symbol, the cross in the form , which occurs hundreds of times upon the Trojan terra-cottas, he replied, that he knows with certainty from the ancient scholiasts on the Rigvêda, from comparative philology, and from the *Monuments figurés*, that *Suastikas*, in this form also, were employed in the very remotest times for producing the holy fire. He adds that the Greeks for a long time generated fire by friction, and that the two lower pieces of wood that lay at right angles across one another were called "σταυρός," which word is either derived from the root "stri," which signifies lying upon the earth, and is then identical with the Latin "sternere," or it is derived from the Sanscrit word "stâvara," which means firm, solid, immovable. Since the Greeks had other means of producing fire, the word σταυρός passed into simply in the sense of "cross."

Other passages might be quoted from Indian scholars to prove that from the very remotest times the 卍 and the were the most sacred symbols of our Aryan forefathers.

In my present excavations I shall probably find definite explanation as to the purpose for which th articles ornamented with such significant symbols wer used; till then I shall maintain my former opinion, that they either served as *Ex votos* or as actual idols of Hephæstus.

No. 70. Large Terra-cotta Vase, with the Symbols of the Ilian Goddess (4 M.).

CHAPTER VII.

Smoking at work forbidden, and a mutiny suppressed — Progress of the great platform — Traces of sacrifices — Colossal blocks of stone belonging to great buildings — Funereal and other huge urns — Supposed traces of Assyrian art — Ancient undisturbed remains — Further discoveries of stone implements and owl-faced idols — Meaning of the epithet "γλαυκῶπις"—Parallel of Ἥρα βοῶπις, and expected discovery of ox-headed idols at Mycenæ — Vases of remarkable forms — Dangers and engineering expedients — Georgios Photidas — Extent of the Pergamus of Troy — Poisonous snakes, and the snake-weed — The whorls with the central sun, stars, the *suastika*, the *Sôma*, or Tree of Life, and sacrificial altars — The name of Mount Ida, probably brought from Bactria.

On the Hill of Hissarlik, April 25th, 1872.

Since my report of the 5th of this month I have continued the excavations most industriously with an average of 120 workmen. Unfortunately, however, seven of these twenty days were lost through rainy weather and festivals, one day also by a mutiny among my men. I had observed that the smoking of cigarettes interrupted the work, and I therefore forbad smoking during working hours, but I did not gain my point immediately, for I found that the men smoked in secret. I was, however, determined to carry my point, and caused it to be proclaimed that transgressors would be forthwith dismissed and never taken on again. Enraged at this, the workmen from the village of Renkoï—about 70 in number—declared that they would not work, if every-one were not allowed to smoke as much as he pleased; they left the platform, and deterred the men from the other villages from working by throwing stones. The good people had imagined that I would give in to them at once, as I could not do without them, and that

now I could not obtain workmen enough; that mo re over during the beautiful weather it was not likely th a I would sit still a whole day. But they found ther selves mistaken, for I immediately sent my foreman to t other neighbouring villages and succeeded (to the horr of the 70 Renkoïts, who had waited the whole night at m door) in collecting 120 workmen for the next morni without requiring their services. My energetic measur have at last completely humbled the Renkoïts, from whose impudence I had very much to put up with during my last year's excavations, and have also had a beneficial effect upon all of my present men. Since the mutiny I have not only been able to prohibit smoking, but even to lengthen the day's work by one hour; for, instead of working as formerly from half-past five in the morning to half-past five in the evening, I now always commence at five and continue till six in the evening. But, as before, I allow half an hour at nine and an hour and a half in the afternoon for eating and smoking.

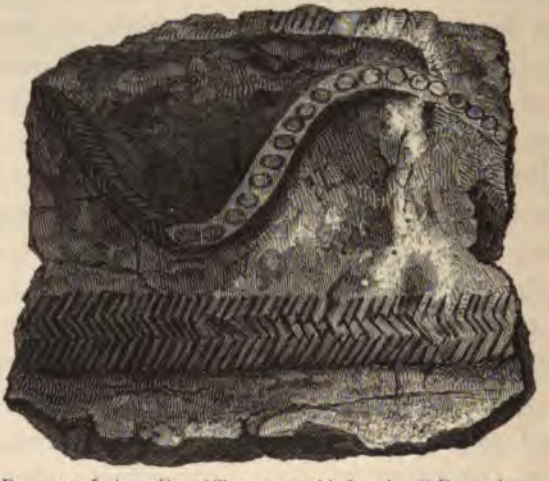
According to an exact calculation of the engineer, M. A. Laurent, in the seventeen days since the 1st of the month I have removed about 8500 cubic meters (11,000 cubic yards) of *débris;* this is about 666 cubic yards each

the remains of the offerings presented to the Ilian Athena. I therefore feel perfectly convinced that by penetrating further into this part I shall come upon the site of the very ancient temple of the goddess. The ashes of this stratum have such a clayey appearance, that I should believe it to be the pure earth, were it not that I find it frequently to contain bones, charcoal, and small shells, occasionally also small pieces of brick. The shells are uninjured, which sufficiently proves that they cannot have been exposed to heat. In this very hard stratum of ash, at 11 feet above the platform, and 46 feet from its edge, I found a channel made of green sandstone nearly 8 inches broad and above 7 inches high, which probably once served for carrying away the blood of the animals sacrificed, and must necessarily at one time have discharged its contents down the declivity of the hill. It therefore proves that the thickness of the hill at this point has increased fully 46 feet since the destruction of the temple to which it belonged.

Upon the other 147½ feet of the platform I find everywhere, as far as to about 16½ feet high, colossal masses of large blocks of shelly limestone, often more or less hewn, but generally unhewn, which frequently lie so close one upon another that they have the appearance of actual walls. But I soon found that all of these masses of stone must of necessity belong to grand buildings which once have stood there and were destroyed by a fearful catastrophe. The buildings cannot possibly have been built of these stones without some uniting substance, and I presume that this was done with mere earth, for I find no trace of lime or cement. Between the immense masses of stone there are intermediate spaces, more or less large, consisting of very firm *débris*, often as hard as stone, in which we meet with very many bones, shells, and quantities of other remains of habitation. No traces of any kind of interesting articles were found in the whole length of the wall of *débris*, 229½ feet in length

and 16¼ feet in height, except a small splendidly worked hair- or dress-pin of silver, but destroyed by rust. To-day, however, at a perpendicular depth of 14 meters (46 feet) I found a beautiful polished piece of mica-schist, with moulds for casting two breast-pins, and two other ornaments which are quite unknown to me—all of the most fanciful description. I also found a funereal or water urn, unfortunately completely broken, with decorations in the form of two flat wreaths which run right round it. The urn must have been 5 feet high, and at least 27½ inches in breadth. In both of the wreaths there is an uninterrupted

No. 71. A Mould of Mica-schist for casting Ornaments (14 M.).



No. 72. Fragment of a large Urn of Terra-cotta with Assyrian (?) Decorations, from the Lowest Stratum (14 M.).

row of cuneiform impressions, which at first sight seem to be Assyrian inscriptions; but on closer examination it is found that they are mere ornaments. The fragments of this vase

show a thickness of about ¾ of an inch. Two other enormous urns, but completely broken, either for water, wine, or funereal ashes, with decorations in the form of several wreaths, forming perfect circles, were found on the 22nd and 23rd of this month, at from 19½ to 23 feet above the platform, and therefore, at a perpendicular depth of from 26 to 33 feet. Both must have been more than 6½ feet high, and more than 3¼ feet in diameter, for the fragments show a thickness of nearly 2 inches. The wreaths are likewise in bas-relief, and show either double triangles fitting into one another with circles, or flowers, or three rows or sometimes one row of circles. The last decoration was also found upon the frieze of green stone which Lord Elgin discovered in the year 1810 in the treasury of Agamemnon in Mycenæ, and which is now in the British Museum. Both this frieze, and the above-mentioned urns discovered by me in the depths of Ilium, distinctly point to Assyrian art, and I cannot look at them without a feeling of sadness when I think with what tears of joy and with what delight the ever-memorable German scholar, Julius Braun, who unfortunately succumbed three years ago to his excessive exertions, would have welcomed their discovery; for he was not only the great advocate of the theory that the Homeric Troy must be only looked for below the ruins of Ilium, but he was also the able defender of the doctrine, that the plastic arts and a portion of the Egyptian and Assyrian mythology had migrated to Asia Minor and Greece, and he has shown this by thousands of irrefutable proofs in his profound and excellent work, *Geschichte der Kunst in ihrem Entwickelungsgange*, which I most urgently recommend to all who are interested in art and archæology.

Both the urns found at a depth of 46 feet and those at from 26 to 33 feet, as well as all the funereal urns and large wine or water vessels which I formerly discovered, were standing upright, which sufficiently proves that the colossal masses of *débris* and ruins were gradually formed on the

spot, and could not have been brought there from another place in order to increase the height of the hill. This is, moreover, a pure impossibility in regard to the immense numbers of gigantic blocks of stone, hewn and unhewn, which frequently weigh from 1 to 2 tons.

In the strata at a depth of from 7 to 10 meters (23 to 33 feet), I found two lumps of lead of a round and concave form, each weighing about two pounds; a great number of rusted copper nails, also some knives and a copper lance; further very many smaller and larger knives of white and brown silex in the form of single and double-edged saws; a number of whet-stones of green and black slate with a hole at one end, as well as various small objects of ivory.* In all the strata from 4 to 10 meters (13 to 33 feet) deep I found a number of hammers, axes and wedges of diorite, which, however, are decidedly of much better workmanship in the strata below the depth of 7 meters (23 feet) than in the upper ones. Likewise at all depths from 3 meters (10 feet) below the surface we find a number of flat idols of very fine marble; upon many of them is the owl's face and a female girdle with dots; upon one there are in addition two female breasts.† The striking resemblance of these owls' faces to those upon many of the vases and covers with a kind of helmet on the owl's

hand, never have breasts or a navel, yet upon some of them I find long female hair represented at the back.*

The important question now presents itself:—*What* goddess is it who is here found so repeatedly, and is, moreover, the only one to be found, upon the idols, drinking-cups and vases? The answer is:—She must necessarily be *the tutelary goddess of Troy*, she must be *the Ilian Athena*, and this indeed perfectly agrees with the statement of Homer, who continually calls her *θέα γλαυκῶπις Ἀθήνη*, "the goddess Athena with the owl's face." For the epithet "*γλαυκῶπις*" has been wrongly translated by the scholars of all ages, because they could not imagine that Athena should have been represented with an owl's face. The epithet, however, consists of the two words *γλαῦξ* and *ὠπή*, and, as I can show by an immense number of proofs, the only possible literal translation is "with an owl's face"; and the usual translation "with blue, fiery or sparkling eyes" is utterly wrong. The natural conclusion is that owing to progressive civilization Athena received a human face, and her former owl's head was transformed into her favourite bird, the owl, which as such is unknown to Homer. The next conclusion is that the worship of Athena as the tutelary goddess of Troy was well known to Homer; hence that a Troy existed, and that it was situated on the sacred spot, the depths of which I am investigating.

In like manner, when excavations shall be made in the Heræum between Argos and Mycenæ, and on the site of the very ancient temple of Hera on the island of Samos, the image of this goddess with a cow's head will doubtless be found upon idols, cups and vases; for "*βοῶπις*," the usual epithet of Hera in Homer, can originally have

* Dr. Schliemann is here speaking of the "cups" which he afterwards decided to be *covers*, which of course represent only the *head*, the *body* being on the vase.—[Ed.]

signified nothing else than "with the face of an ox." But as Homer also sometimes applies the epithet βοῶπις to mortal women, it is probable that even at his time it was considered to be bad taste to represent Hera, the wife of the mightiest of all the gods, with the face of an ox, and that therefore men even at that time began to represent her with a woman's face, but with the eyes of an ox, that is, with very large eyes; consequently the common epithet of βοῶπις, which had formerly been only applied to Hera with the meaning of "with the face of an ox," now merely signified with large eyes.

Of pottery we have found a great deal during the last weeks, but unfortunately more than half of it in a broken condition. Of painting upon terra-cotta there is still no trace; most of the vessels are of a simple brilliant black, yellow, or brown colour; the very large vases on the other hand are generally colourless. Plates of ordinary manufacture I have as yet found only at a depth of from 8 to 10 meters (26 to 33 feet), and, as can be distinctly seen, they have been turned upon a potter's wheel. All the other vessels hitherto found seem, however, to have been formed by the hand alone; yet they possess a certain elegance, and excite the admiration of beholders by their strange and very curious forms. The vases with a long neck bent back, a beak-shaped mouth turned upwards, and a round protruding body*—two of which are in the British

No. 73. Trojan Plates found on the Tower (8 M.).

* See Cut, No. 54, p. 86.

Museum, several of those found in Cyprus in the Museum in Constantinople, and several of those discovered beneath three layers of volcanic ashes in Thera and Therassia in the French school in Athens—are almost certainly intended to represent women, for I find the same here at a depth of from 26 to 33 feet, with two or even with three breasts, and hence I believe that those found here represent the tutelary goddess of Ilium. We also find some vases and covers with men's faces, which, however, are never without some indications of the owl; moreover, the vases with such faces always have two female breasts and a navel. I must draw especial attention to the fact that almost all of the vases with owls' faces, or with human faces and the indications of the owl, have two uplifted arms, which serve as handles, and this leads me to conjecture that they are imitations of the large idol which was placed in the very ancient temple of the Ilian divinity, which therefore must have had an owl's face, but a female figure, and two arms beside the head. It is very remarkable that most of the vessels which I find have been suspended by cords, as is proved by the two holes in the mouth, and the two little tubes, or holes in the handles, at the side of the vessels.

No. 74. Vase Cover with a human face. From the Trojan Stratum (8 M.).

Unfortunately, many of the terra-cottas get broken when the *débris* is being loosened and falls down, for there is only one way in which I can save my men and myself from being crushed and maimed by the falling stones: this is, by keeping the lowest part of the mighty earthen wall on the perpendicular up to 16 feet (not 7 feet, as on the first five days), and the whole of the upper part at an angle of 50 degrees, by always loosening the perpendicular portion, by making shafts, and working with large iron levers in pieces of from 15 to 30 cubic metres (20 to 40 cubic

yards). By thus causing the *débris* and the stones of the upper portion to be loosened with the pickaxe, the stones fall in almost a direct line over the lower perpendicular wall of 16 feet; therefore they roll at most a few paces, and there is less danger that anyone will be hurt. By this means I also have the advantage that the greatest portion of the *débris* falls down of its own accord, and what remains can be shovelled down with little trouble, whereas at first I spent half of my time in getting it down. As, however, in making shafts and in bringing down the colossal lumps of earth a certain amount of skill and caution is necessary, I have engaged a third foreman at 7 francs a day, Georgios Photidos, of Paxos, who has for seven years worked as a miner in Australia, and was there occupied principally in making tunnels. Home-sickness led him back to his native country, where, without having sufficient means of earning his daily bread, he, in youthful thoughtlessness and out of patriotism, married a poor girl of his own people who was but fifteen years old. It was only after his marriage, and in consequence of domestic cares, that he recovered his senses. He heard that I was making excavations here, and came on speculation to offer me his services. As he had assured me, when I first saw him, that

to commence the construction of the railroad from the Piræus to Lamia. He has, however, made me a good plan of this hill. I must add that the Pergamus of Priam cannot have been limited to this hill, which is, for the most part, artificial; but that, as I endeavoured to explain four years ago,* it must necessarily have extended a good way further south, beyond the high plateau. But even if the Pergamus should have been confined to this hill, it was, nevertheless, larger than the Acropolis of Athens; for the latter covers only 50,126 square meters (about 60,000 square yards), whereas the plateau of this hill amounts to 64,500 square meters (about 77,400 square yards). I must further mention that, according to Laurent's calculation, the plateau rises 46 feet above my platform, and that his measurements of its height (about 38 feet on the north and 39 feet on the south) applies to those points where the steep precipice commences. I have just built a house with three rooms, as well as a magazine and kitchen, which altogether cost only 1000 francs (40*l.*), including the covering of waterproof felt; for wood is cheap here, and a plank of about 10 feet in length, 10 inches in breadth, and 1 inch thick, may be got for 2 piasters, or 40 centimes. (*These houses are seen in Plates X. and XI.*)

We still find poisonous snakes among the stones as far down as from 33 to 36 feet, and I had hitherto been astonished to see my workmen take hold of the reptiles with their hands and play with them; nay, yesterday I saw one of the men bitten twice by a viper, without seeming to trouble himself about it. When I expressed my horror, he laughed, and said that he and all his comrades knew that there were a great many snakes in this hill, and they had therefore all drunk a decoction of the snake-weed which

* *Ithaque, le Péloponnèse et Troie.* Dr. Schliemann's subsequent change of opinion on this point is explained in subsequent chapters, and in the Introduction.

grows in the district, and which renders the bite harmless. Of course I ordered a decoction to be brought to me, so that I also may be safe from their bites. I should, however, like to know whether this decoction would be a safeguard against the fatal effects of the bite of the hooded cobra, of which in India I have seen a man die within half an hour; if it were so, it would be a good speculation to cultivate snake-weed in India.

The frequently-discussed terra-cottas in the form of the volcano and top (*carrousel*) are continually found in immense numbers, as far as a depth of from 33 to 36 feet, and most of them have decorations, of which I always make an accurate drawing.* On comparing these drawings, I now find that all, without exception, represent the sun in the centre, and that almost the half of the other carvings show either only simple rays or rays with stars between, or round the edge; or again, three, four, six, or eight simple, double, treble, and quadruple rising suns in a circle round the edge.† Sometimes the sun is in the centre of the cross with four nails, which, according to the explanations in my sixth memoir, can evidently, and in all cases, represent only the instrument which our Aryan forefathers used for producing the holy fire (Agni), and which some Sanscrit scholars call "Arani" and others "Suastika." The rising sun must have been the most sacred object to our Aryan ancestors;

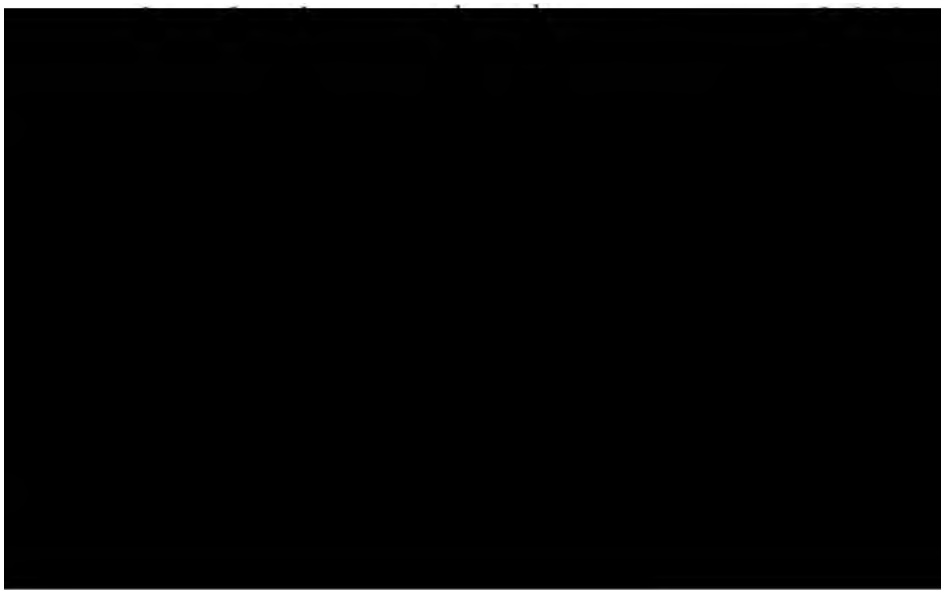
in the centre, surrounded by 32 little stars and three 卍; another where one entire half of the circle is filled by the rays of the sun, which, as in all cases, occupies the central point; on the other half are two 卍 and 18 little stars, of which twice three (like the sword of Orion) stand in a row; and another where even four are seen in a row. As M. Émile Burnouf tells me, three dots in a row, in the Persian cuneiform inscriptions, denote "royal majesty." I do not venture to decide whether the three dots here admit of a similar interpretation. Perhaps they point to the majesty of the sun-god and of Agni, who was produced out of the 卍. Upon some of these terra-cottas the sun is even surrounded by four 卍, which again form a cross by their position round it. Upon others, again, I find the sun in the centre of a cross formed by four trees, and each one of these trees has three or four large leaves.* Indian scholars will, perhaps, find these tree-crosses to represent the framework upon which our ancestors used to produce the holy fire, and the repeatedly-recurring fifth tree to be the "Pramantha." I find representations of this same tree several times, either surrounded by circles or standing alone, upon small terra-cotta cones of from 1½ to 2¼ inches in diameter, which, in addition, have the most various kinds of symbols and a number of suns and stars. Upon a ball, found at the depth of 8 meters (26 feet), there is a tree of this kind, surrounded by stars, opposite a 卍, beside which there is a group of nine little stars.† I therefore venture to express the conjecture that this tree is the tree of life, which is so frequently met with in the Assyrian sculptures, and that it is identical with the holy Sôma-tree, which, according to the Vêdas (see Émile Burnouf, Max Müller, Adalbert Kuhn, and Fr. Windischmann), grows in

* For the type of whorls with "sôma-trees" or "trees of life" (four, or more, or fewer), see Nos. 398, 400, 401, 404, &c. In No. 410 the four trees form a cross.

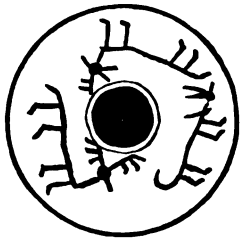
† Plate LII., No. 498.

heaven, and is there guarded by the Gandharvas, who belong to the primeval Aryan period, and subsequently became the Centaurs of the Greeks. Indra, the sun-god, in the form of a falcon,* stole from heaven this Sôma-tree, from which trickled the Amrita (ambrosia) which conferred immortality. Fr. Windischmann † has pointed out the existence of the Sôma-tree worship as common to the tribes of Aryans before their separation, and he therefore justly designates it an inheritance from their most ancient traditions.‡ Julius Braun§ says, in regard to this Sôma-tree: "Hermes, the rare visitor, is regaled with nectar and ambrosia. This is the food which the gods require in order to preserve their immortality. It has come to the West from Central Asia, with the whole company of the Olympian gods; for the root of this conception is the tree of life in the ancient system of Zoroaster. The fruit and sap of this tree of life bestows immortality, and the future Messiah (*Sosiosh*, in the Zend writings) will give some of it to all the faithful and make them all immortal. This hope we have seen fully expressed in the Assyrian sculptures, where the winged genii stand before the holy tree with a vessel containing the juice and fruit."

Just now two of those curious little terra-cottas, in the



long teeth, forming a cross round the sun.* I conjecture that these extremely remarkable hieroglyphics, which at first sight might be imagined to be actual letters, can by no means represent anything else than the sacrificial altar with the flames blazing upon it. I do not doubt moreover, that in the continuation of the excavations I shall find this comb-shaped sign together with other symbols, which will confirm my conjectures.



No. 75. A Whorl, with three animals (3 M.).

I must also add that the good old Trojans may perhaps have brought with them from Bactria the name of Ida, which they gave to the mountain which I see before me to the south-east, covered with snow, upon which Jove and Hera held dalliance,† and from which Jove looked down upon Ilium and upon the battles in the Plain of Troy, for, according to Max Müller,‡ Ida was the wife of Dyaus (Zeus), and their son was Eros. The parents whom Sappho ascribes to Eros—Heaven and Earth—are identical with his Vedic parents. Heracles is called Ἰδαῖος, from his being identical with the Sun, and he has this name in common with Apollo and Jove.

To-morrow the Greek Easter festival commences, during which unfortunately there are six days on which no work is done. Thus I shall not be able to continue the excavations until the 1st of May.

* See Plate XXXV., No. 414. The same symbol is seen on several other examples.

† *Iliad*, XIV. 346–351. An English writer ought surely to use our old-fashioned form *Jove*, which is also even philologically preferable as the stem common to Ζεύς and *Ju*-piter (Διο = Ζεϝ = *Jov*), rather than the somewhat pedantically sounding Ζεύς.—[Ed.]

‡ *Essays*, II. 93.

CHAPTER VIII.

Hindrances through Greek festivals — Thickness of the layers of *débris* above the native rock — Date of the foundation of Troy — Impossibility of the *Bunarbashi* theory — Homeric epithets suitable to Hissarlik — Etymology of Ἴλιος, signifying probably the "fortress of the Sun" — The *Aruna* of the Egyptian records — Progress of the platform, and corresponding excavation on the south — The bulwark of Lysimachus — Ruins of great buildings — Marks of civilization increasing with the depth — Vases, and fragments of great urns — A remarkable terra-cotta — A whorl with the appearance of an inscription.

On the Hill of Hissarlik, May 11th, 1872.

SINCE my report of the 25th of last month I have only been able to have ten days' digging, owing to the various Greek festivals, for even the poorest Greek of this district would not work on a church festival even if he could earn 1000 francs in an hour. Turkish workmen were not to be

still six weeks before us, with the precaution of taking quinine to guard against fever.

I have cleared out the Roman well, which has been repeatedly mentioned, to a depth of 20 meters (65½ feet), and I find that it is walled only as far as 52½ feet below the surface of the hill, and then runs into the limestone rock which forms the native soil. I have caused Georgios Photidas to make a small tunnel in this rock from the well, and have now become quite convinced that the ground—upon which, according to Homer, the Trojan king Dardanus, who had up to that time lived at the foot of many-fountained Ida, built the town of Dardania (Troy) in the Plain*—is covered with a layer of *débris* about 16 meters, or 52½ English feet, thick. I must here remind the reader that the ruins of the Greek colony, which settled on the spot, scarcely extend to a depth of 6½ feet; that consequently if, with Strabo (XIII. 1, 43) we suppose the establishment of this colony to have taken place under the Lydian dominion, that is about 700 B.C., and calculate the duration of the reigns of the six kings (Dardanus, Erichthonios, Tros, Ilus, Laomedon, and Priam) who, according to the Iliad (XX. 215-240), preceded the destruction of Troy, at 200 years, and thus presume the town to have been founded about 1400 years before Christ, the accumulation of *débris* must in this place have amounted to 14 meters, or 46 feet, during the first 700 years.

I am firmly convinced that, on a glance at my excavations, every one of the remaining advocates of the anti-

* *Iliad*, XX. 216–218 :—

Κτίσσε δὲ Δαρδανίην· ἐπεὶ οὔπω Ἴλιος ἰρὴ
Ἐν πεδίῳ πεπόλιστο, πόλις μερόπων ἀνθρώπων,
Ἀλλ' ἔθ' ὑπωρείας ᾤκεον πολυπίδακος Ἴδης.

"By Dardanus, of cloud-compelling Jove
Begotten, was Dardania peopled first,
Ere sacred Ilion, populous city of men,
Was founded on the plain; as yet they dwelt
On spring-abounding Ida's lowest spurs."

quated theory that Troy is to be looked for at the back of the Plain, upon the heights of Bunarbashi, will at once condemn that theory, for the Acropolis and town which once stood upon those heights, and the small area of which is accurately defined by the ruins of the surrounding walls and by the precipices, is scarcely large enough to have contained a population of 2000 souls; the accumulation of *débris* moreover is extremely small. In many places, even in the middle of the Acropolis, the naked rock protrudes, and between the area of this small town and Bunarbashi the ground—in some places pointed, in others abrupt, but in all parts irregular—shows that no village, much less a town, can ever have stood upon it. Immediately above Bunarbashi, and in fact wherever there was any earth at all, I and my guide, with five workmen, made (in August 1868) a long series of borings at distances of 100 meters (328 feet) apart, as far as the Scamander, but we found the primary soil in all cases directly, and the rock at quite an insignificant depth; and nowhere was there a trace of fragments of pottery or other indications that the place could ever have been inhabited by human beings. Even in Bunarbashi itself I found the primary soil at a depth of less than 2 feet. Besides this, if Troy had been built at the back of the Plain, upon the heights of Bunarbashi, Homer (*Iliad*, XX. 216-218) would not have expressly said that

the latter; for one of my greatest troubles here is the continual high wind, and it cannot possibly have been otherwise in Homer's time. It is assuredly time that the Bunarbashi theory, which stands in direct contradiction with all the statements of the Iliad, should now at last come to an end. The theory, in fact, would never have arisen had its advocates, instead of spending one hour, remained a whole day on the heights, and made investigations even with the aid of a single workman.

As I observed in my last report, I here find the sun represented in the centre of all the innumerable round ornamented terra-cottas in the form of the volcano and top (*carrousel*), and yesterday I even found one upon which the central sun was surrounded by five other suns, each of them with twelve rays.*

I know very well that some would derive the name of the town of Ilium (Ἴλιος or Ἴλιον) from the Sanscrit word *vilâ*, "fortress," and Ἥλιος from a lost masculine form of Σελήνη, probably Σείριος, and the thought involuntarily forces itself upon me, when looking at the above-mentioned terra-cottas with the five suns in a circle round the central sun, that the image of the Sun which occurs thousands and thousands of times must be connected with the name of Troy, namely Ἴλιος, for Ἴλιον only occurs once in Homer (Iliad, XV. 71); he always elsewhere speaks of Ἴλιος, and always uses this word as a feminine. Homer, it is true, always says Ἠέλιος instead of Ἥλιος, but in my opinion the root of both is ἕλη or εἴλη, from the verb αἱρέω, the aorist of which is εἷλον. In Germany, according to the Erasmian pronunciation εἴλη is certainly pronounced *heila*, and εἷλον, *heilon*; but in the modern Greek pronunciation εἴλη is *ili*; εἷλον, *ilon*; and Ἥλιος, *ilios*. There are a number of proofs that the Erasmian pronunciation is radically wrong, and that the modern Greek is the correct one. Among these

* See Plate XXII., No. 327.

I will only mention that all the Greek words which passed over into the Russian language, when Russia embraced Christianity 900 years ago, are pronounced in Russian exactly as they still are in Greece; and moreover that those who decipher the Assyrian cuneiform inscriptions (especially, I believe, J. Oppert, in Paris), have pointed out that the Greek names, which occur in these inscriptions from the time of the Seleucidæ, are represented in the cuneiform writing exactly according to the modern Greek pronunciation. Now, if out of the word εἵλη, ἕλη, or εἶλον, there has arisen Ἥλιος and Ἴλιος, then surely by the sameness of the pronunciation there may have arisen out of one of the first three words in pre-Homeric times Ἴλιος in the feminine for πόλις Ἡλίου or Ἰλίου, signifying "Sun-castle," for the earlier meaning of πόλις was certainly castle, fortress, or acropolis, as for instance in the Iliad, VI. 88, 257, 317, XXII. 383. Although I am well aware that Egyptian scholars have hitherto found no relationship between the hieroglyphic and Sanscrit languages, yet I cannot help mentioning that three years ago, in the Institute of France, I heard a lecture by the Vicomte de Rougé, who had found in a papyrus the names of the powers leagued against Rameses III., and among these the state of *Arouna*

130 men, and I firmly hope by the 1st of October to have carried my great platform through the entire hill, preserving exactly the same breadth; for while my wife and I, with 85 workmen, are busy on the platform on the north side, Georgios Photidas and 45 men have for 10 days been working towards us from a second platform on the south side. Unfortunately, however, the slope of the hill on the south side is so slight, that we were forced to begin this work 16½ feet below the surface, in order to have room and freedom for removing the *débris;* we have, however, given it a dip of 14°, so that it must reach the primary soil at a length of about 75 meters (246 feet). This southern platform is under the sole direction of Georgios Photidas, for he has proved himself to be a very skilful engineer, and he works forward very quickly through his cleverly devised side terraces. He has hitherto, however, had only light *débris* to remove, and has not yet come upon that very hard, tough, damp *débris* which I have on my platform at the depth of 10 to 16 meters (33 to 52½ feet). To-day he has brought to light a splendid bastion, composed of large finely-hewn blocks of limestone, not joined by either cement or lime, which, however, does not seem to me to be older than the time of Lysimachus. It is certainly very much in our way, but it is too beautiful and venerable for me to venture to lay hands upon it, so it shall be preserved.

On the south side the accumulation of *débris* from the Greek period is much more considerable than on the north side and upon the plateau; and thus far Georgios Photidas constantly finds Greek pottery and those terra-cottas with two holes at one end, which, in my excavations hitherto, ceased entirely at a depth of 2 meters (6½ feet). The greater portion of these round articles have the potter's stamp already mentioned, representing a bee or fly with outspread wings above an altar. (*See Cuts*, Nos. 37–40, p. 65.)

I have also given the platform on the north side an inclination of 10° in a length of 66 feet, so as to be able to work

forward on the primary soil, without the indescribable trouble of lowering it another 6½ feet, and of thus having to remove 4000 cubic yards of *débris*. This primary soil sufficiently proves that all those enormous masses of immense stones, generally more or less hewn, with which, as already said, I had continually to battle at a depth of from 10 to 14 meters (33 to 46 feet), are the remains of large buildings, which in the course of centuries have been erected successively upon the ruins of others. For it does not appear conceivable to me that even a large palace, were it six storeys high, could leave such colossal ruins, which, as they reach down to the rock, are nearly 20 feet in height.

For some days these masses of stone have diminished in number, but we continually find many single large blocks. Instead of the stone strata, however, we now have before us, upon the whole breadth of the platform (230 feet), and to the height of 20 feet (hence at a depth of from 10 to 16 meters, 33 to 52½ feet), a damp wall as hard as stone, composed of ashes mixed with small shells, bones, boars' tusks, &c., exactly like that which we before found at the east end. This mass is so tough, that it is only by making shafts, and breaking down the walls by means of

double cups were made of gold or silver with a gilt rim,* but I do not doubt that there were at the same time also double cups made of clay.†

The other vessels, of which I found fragments, were made so as to be carried by strings, as is proved by the two rings projecting beside one another on either side. I also found upon the primary soil the head of a brilliant black pitcher, with a beak-shaped mouth bent back; also the fragment of a vessel painted white, but divided into two compartments by black lines drawn horizontally; the upper compartment contains undulating black lines, which are perhaps meant to represent water, the lower one is filled with a row of arrow-shaped decorations, with square pointed heads, in the centre of which there is always a dot.

No. 76. Fragment of a Vase of polished black Earthenware, with Pattern inlaid in White, from the Lowest Stratum (14 M.).

No. 77. Fragment of Terra-cotta, perhaps part of a box, found on the primitive Rock (16 M.).

At the same depth I found fragments of large water or funereal urns with engraved ornaments of various descriptions; also a square piece of terra-cotta painted black and ornamented all round with lines and four rows of dots filled with a white substance. As appears

* See, for example, *Iliad*, XI. 633–635, *Odyssey*, XV. 116, 446.

† Dr. Schliemann found afterwards that these fragments did not belong to double cups. (See Chap. XXII., p. 313, and 'Introduction,' p. 15.)

from the upper and the lower side, and from the two perforations, it must have been the setting and decoration of a wooden jewel-casket. It is made with so much symmetry and looks so elegant, that I at first thought it was ebony inlaid with ivory.

At the depth of 8 meters (26 feet) I found a terra-cotta seal an inch and a half in length, with a hole for suspending it; there are a number of signs upon it resembling the ancient Koppa—like that stamped upon Corinthian coins.*

No. 78. A Trojan Terra-cotta Seal (8 M.).

At a depth of 5 meters (16¼ feet), I found to-day a very pretty jar with three feet, which is evidently intended to represent a woman, probably the Ilian Athena, for it has two breasts and a navel.

The snakes seem to have been enticed out of their winter quarters by the warm weather which has set in; for it is ten days since I have seen any.

Amid all the fatigues and troubles of the excavations there is this among other pleasures, that time never hangs heavy on one's hands.

* As the device on a seal may be presumed to be significant, and as patterns strikingly similar to this occur on some of the whorls (*q.v.*

CHAPTER IX.

Superstition of the Greeks about saints' days — Further engineering works — Narrow escape of six men — Ancient building on the western terrace — The ruins under this house — Old Trojan mode of building — Continued marks of higher civilization — Terra-cottas engraved with Aryan symbols: antelopes, a man in the attitude of prayer, flaming altars, hares — The symbol of the moon — Solar emblems and rotating wheels — Remarks on former supposed inscriptions—Stone moulds for casting weapons and implements — Absence of cellars, and use of colossal jars in their stead — The quarry used for the Trojan buildings — "Un Médecin malgré lui." — Blood-letting priest-doctors — Efficacy of sea-baths — Ingratitude of the peasants cured — Increasing heat.

On the Hill of Hissarlik, May 23rd, 1872.

SINCE my report of the 11th instant there have again been, including to-day, three great and two lesser Greek church festivals, so that out of these twelve days I have in reality only had seven days of work. Poor as the people are, and gladly as they would like to work, it is impossible to persuade them to do so on feast days, even if it be the day of some most unimportant saint. Μᾶς δέρνει ὁ ἅγιος ("the saint will strike us") is ever their reply, when I try to persuade the poor creatures to set their superstition aside for higher wages.

In order to hasten the works, I have now had terraces made at from 16 to 19 feet above the great platform on its east and west ends; and I have also had two walls made of large blocks of stone—the intermediate spaces being filled with earth—for the purpose of removing the *débris*. The smaller wall did not seem to me to be strong enough, and I kept the workmen from it; in fact, it did not

bear the pressure, and it fell down when it was scarcely finished. Great trouble was taken with the larger and higher wall: it was built entirely of large stones, for the most part hewn, and all of us, even Georgios Photidas, thought it might last for centuries. But nevertheless on the following morning I thought it best to have a buttress of large stones erected, so as to render it impossible for the wall to fall; and six men were busy with this work when the wall suddenly fell in with a thundering crash. My fright was terrible and indescribable, for I quite believed that the six men must have been crushed by the mass of stones; to my extreme joy, however, I heard that they had all escaped directly, as if by a miracle.

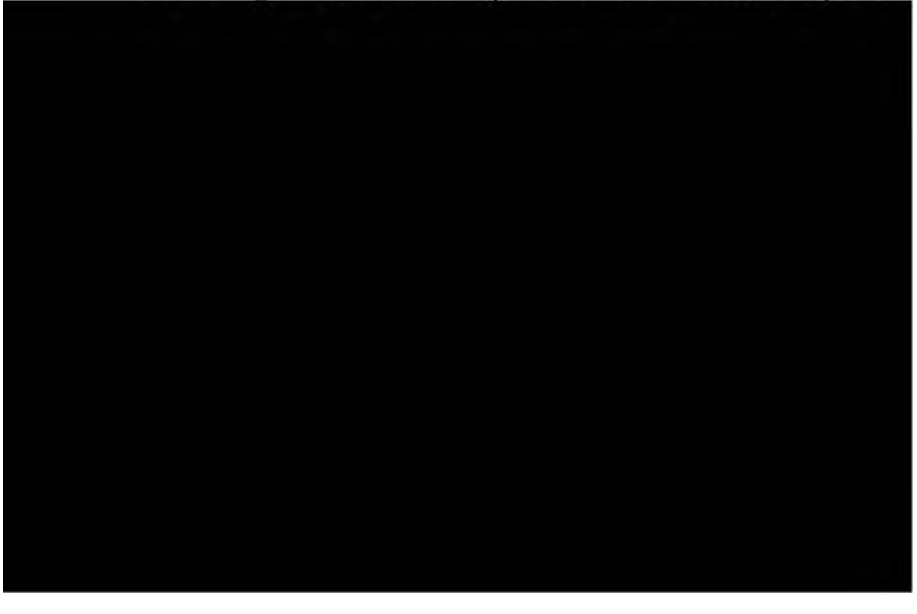
In spite of every precaution, excavations in which men have to work under earthen walls of above 50 feet in perpendicular depth are always very dangerous. The call of "guarda, guarda" is not always of avail, for these words are continually heard in different places. Many stones roll down the steep walls without the workmen noticing them, and when I see the fearful danger to which we are all day exposed, I cannot but fervently thank God, on returning home in the evening, for the great blessing that another day has passed without an accident. I still think

seem to be more than 1 foot 9 inches long, and they are so skilfully put together, that the wall forms a smooth surface. This house is built upon a layer of yellow and brown ashes and ruins, at a depth of 6 meters (20 feet), and the portion of the walls preserved reaches up to within 10 feet below the surface of the hill. In the house, as far as we have as yet excavated, we found only one vase, with two breasts in front and one breast at the side; also a number of those frequently mentioned round terra-cottas in the form of the volcano and top, all of which have five or six quadruple rising suns in a circle round the central sun.* These objects, as well as the depth of 6 meters (20 feet), and the architecture of the walls described above, leave no doubt that the house was built centuries before the foundation of the Greek colony, the ruins of which extend only to a depth of 6½ feet. It is with a feeling of great interest that, from this great platform, that is, at a perpendicular height of from 33 to 42 feet, I see this very ancient building (which may have been erected 1000 years before Christ) standing as it were in mid air. To my regret, however, it must in any case be pulled down, to allow us to dig still deeper. As I said before, directly below this house there is a layer of ruins consisting of yellow and brown ashes, and next, as far as the terrace, there are four layers more of ashes and other *débris*, each of which represents the remains of one house at least. Immediately above the terrace, that is 13 feet below the foundation of that very ancient house, I find a wall about 6 feet thick, built of large blocks of lime-tone, the description of which I must reserve for my next report, for a large portion of the building I have mentioned, and immense masses of the upper strata of *débris*, as well as the high earthen wall of the terrace (26 feet thick and 20 feet high) must be pulled down, before I can lay bare any portion of this wall and investigate how far down it extends.

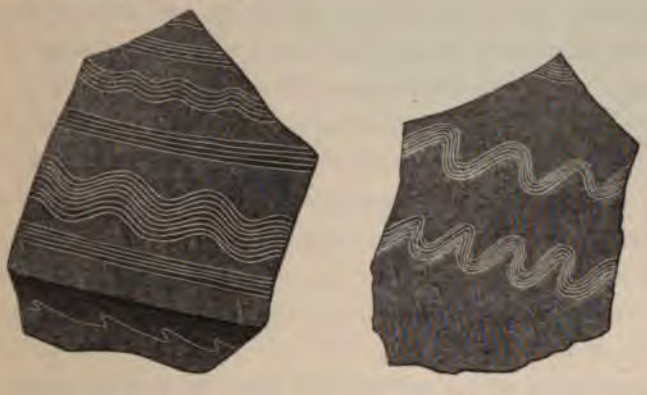
* See Plate XXII., No. 321.

If it reaches to or even approaches the primary soil, then I shall reverently preserve it. (See No. 25 on Plan II.) It is a very remarkable fact, that this is the first wall built of large stones that I have hitherto found at the depth of from 10 to 16 meters (33 to 52½ feet).* I cannot explain this, considering the colossal masses of loose stones which lie irregularly beside one another (especially at a depth of from 36 to 52½ feet), in any other way than by supposing that the houses of the Trojans were built of blocks of limestone joined with clay, and consequently easily destroyed. If my excavations are not interrupted by any accident, I hope, in this at all events, to make some interesting discoveries very soon, with respect to this question.

Unfortunately during the last twelve days I have not been able to pull down much of the lower firm earth-wall, for, in order to avoid fatal accidents, I have had to occupy myself especially in making and enlarging the side terraces. I have now, however, procured enormous iron levers of nearly 10 feet in length and 6 inches in circumference, and I thus hope henceforth to be able at once to break down, by means of windlasses, the hardest of the earth-walls, which are 10 feet thick, 66 broad, and from 16 to 26 feet high. In the small portion of the earth-wall pulled



next set no part has been preserved; the thickness of the clay is just $\frac{3}{5}$ of an inch.



a *b*

No. 79. Fragment of a brilliant dark-grey Vessel, from the Lowest Stratum (15 M.). *a* Inside; *b* Outside.

In my report of the 25th of last month,* I mentioned the discovery of one of those terra-cottas upon which were engraved three animals with antlers in the circle round the central sun. Since then four others of these remarkable objects with similar engravings have been discovered. Upon one of them, found at a depth of 6 meters (20 feet), there are only two animals with antlers in the circle round the sun, and at the end of each antler, and connected with it, is an exceedingly curious sign resembling a large candlestick or censer, which is certainly an especially important symbol, for it is repeatedly found here standing alone.† Upon a second, there is below a rough representation of a man who seems to be praying, for he has both arms raised towards heaven; this position reminds us forcibly of the two uplifted arms of the owl-faced vases; to the left is an animal with but two feet and two trees on its back.‡ Indian scholars will perhaps find that this is intended to represent the falcon, in which shape the sun-god stole the sacred sôma-tree from

* Chapter VII., p. 121.

† See No. 380, on Plate XXIX. ‡ See No. 383, on Plate XXX.

heaven. Then follow two animals with two horns, probably antelopes, which are so frequently met with upon ancient Greek vases, and which in the Rigvêda are always made to draw the chariot of the winds. Upon a third terra-cotta there are three of these antelopes with one or two rows of stars above the back, which perhaps are intended to represent heaven; then five fire-machines, such as our Aryan ancestors used; lastly, a sign in zigzag, which, as already said, cannot represent anything but the flaming altar.* Upon the fourth whorl are four hares, the symbols of the moon, forming a cross round the sun. They probably represent the four seasons of the year.†

At a depth of 14 meters (46 feet) we found to-day two of those round articles of a splendidly brilliant black terra-cotta, which are only $\frac{3}{5}$ of an inch in height, but $2\frac{1}{3}$ inches in diameter, and have five triple rising suns and five stars in the circle round the central sun. All of these decorations, which are engraved, as in every other case, are filled in with a very fine white substance. When looking at these curious articles, one of which is exactly the shape of a carriage-wheel,‡ the thought involuntarily strikes me that they are symbols of the sun's chariot, which, as is well known, is symbolized in the Rigvêda by a wheel, and that

point of all the round terra-cottas, but it is almost always surrounded by one, two, three, four or five circles, which may represent the nave of the wheel. At a depth of 16 meters (52½ feet) we found a round terra-cotta, which is barely an inch in diameter, and a fifth of an inch thick; there are five concentric circles round the central point, and between the fourth and fifth circle oblique little lines, which are perhaps meant to denote the rotation of the wheel.

No. 80. Whorl with pattern of a moving Wheel (16 M.).

I must here again refer to the round terra-cotta mentioned in my report of the 18th of November, 1871,* and to my regret I must now express my firm conviction that there are no letters upon it, but only symbolical signs; that for instance the upper sign (which is almost exactly the same as that upon the terra-cotta lately cited) † must positively represent a man in an attitude of prayer, and that the three signs to the left can in no case be anything but the fire-machine of our Aryan ancestors, the 卍 little or not at all changed. The sign which then follows, and which is connected with the fourth and sixth signs, I also find, at least very similar ones, on the other, cited in the same report, but I will not venture to express an opinion as to what it may mean.‡ The sixth sign (the fifth from the figure in prayer) is very like the Phœnician letter "Nun," but in my opinion cannot be a letter, for how would it be possible to find a single Semitic letter, between Aryan religious symbols? Its great resemblance to the zigzag sign of other examples,§ which I recognise to be lightning,

* Chapter IV. p. 84. See Plate XXII., No. 326, from the Atlas of Photographs, and Plate XLVIII., No. 482, from M. Burnouf's drawings.

† Plate XXX., No. 383.

‡ Page 83, and Plate LI., No. 496. This is one of the inscriptions examined by Professor Gomperz. (See Appendix.)

§ See Cut, No. 81, and Plate XXVII., No. 369. The latter is an inscription, which Professor Gomperz has discussed. (See Appendix.)

leads me to suppose that it likewise can only represent lightning.

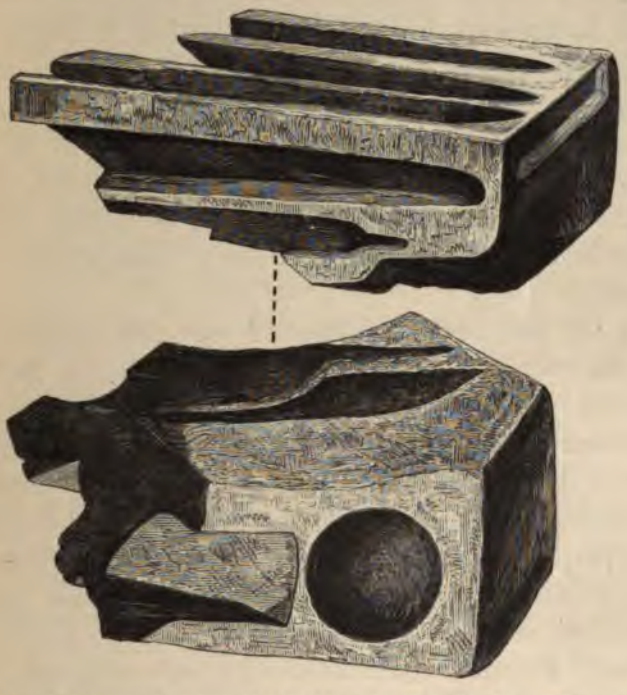
All the primitive symbols of the Aryan race, which I find upon the Trojan terra-cottas, must be symbols of good men, for surely only such would have been engraved upon the thousands of terra-cottas met with here. Yet these symbols remind one forcibly of the "*σήματα λυγρά*" and "*θυμοφθόρα*," which King Prœtus of Tiryns gave to Bellerophon to take to his father-in-law in Lycia.* Had he scratched a symbol of good fortune, for instance a 卍, upon the folded tablet, it would assuredly have sufficed to secure him a good reception, and protection. But he gave him the symbol of death, that he might be killed.

No. 81. Whorl with Symbols of Lightning (7. M.).

The five [six] characters found on a small terra-cotta disc at a depth of 24 feet, and which in my report of November 18th, 1871,† I considered to be Phœnician, have unfortunately been proved not to be Phœnician, for M. Ernest Renan of Paris, to whom I sent the small disc, finds nothing Phœnician in the symbols, and maintains that I could not find anything of the kind in Troy, as it was not the custom

ever been found belonging to a date anterior to 500 years B.C.

I may also remark, with regard to my last year's excavations, that I have now found quadrangular pieces of mica-schist and chlorite slate, from nearly 6 inches to nearly 11 inches long, and from about $1\frac{1}{4}$ to $3\frac{1}{2}$ inches thick,



No. 82. Two fragments of a great Mould of Mica-schist for casting Copper Weapons and Ornaments (14 M.).

which have on all four sides, and several of them on six sides, forms or moulds for casting weapons and instruments; and further, that the channelled pieces, spoken of in the report of November 18th, 1871,* are nothing but fragments of similar stone-moulds; the brilliant, glossy appearance of the slate seems to have been produced by simple polishing.

* Chapter IV., p. 87.

Of cellars, such as we have in civilized countries, I have as yet found not the slightest trace, either in the strata of the Hellenic or in those of the pre-Hellenic period; earthen vessels seem everywhere to have been used in their stead. On my southern platform, in the strata of Hellenic times, I have already had ten such vessels dug out in an uninjured condition; they are from 5¾ to 6½ feet high, and from 2 to 4½ feet in diameter, but without decorations.* I sent seven of these jars (πίθοι) to the Museum in Constantinople.

In the strata of the pre-Hellenic period I find an immense number of these πίθοι, but I have as yet only succeeded in getting two of them out uninjured, from a depth of 26 feet; these are about 3½ feet high and 26¾ inches in diameter; they have only unimportant decorations.

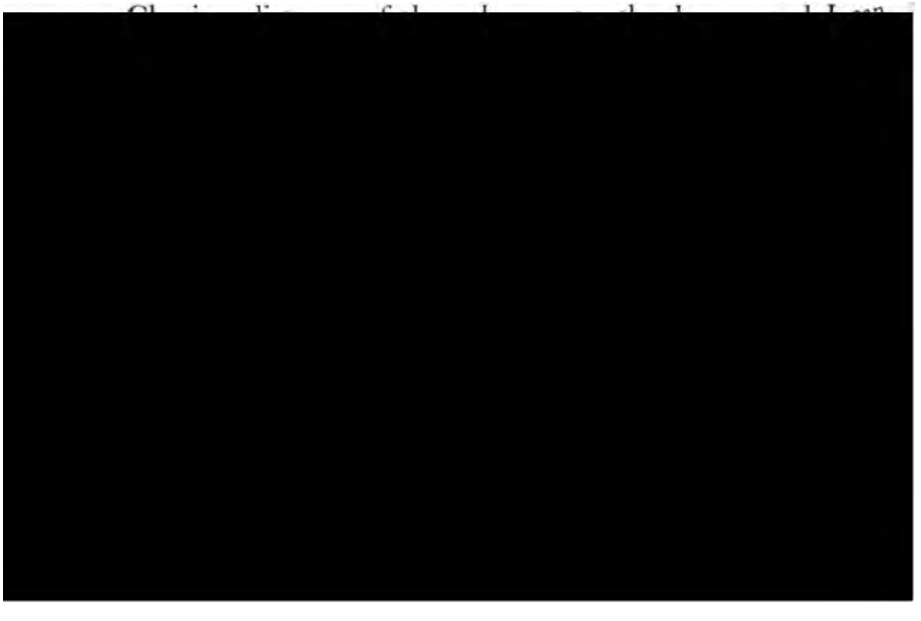
In my last communication, I was able to speak of a lesser number of the blocks of stone obstructing the works upon the great platform; to-day, however, I have again unfortunately to report a considerable increase of them.

At a distance of scarcely 328 yards from my house, on the south side, and at the part of the plateau of Ilium in a direct perpendicular line below the ruined city wall, which seems to have been built by Lysimachus, I have now dis-

here, it was still open only 20 years ago, and, as my excavations have proved, it was very large. The town, as seems to be indicated by a continuous elevation extending below the quarry, had a double surrounding wall at this point, and this was in fact necessary, for otherwise the enemy would have been able, with no further difficulty, to force his way into the quarry below the town-wall, as the entrance to the quarry was outside of the wall.

Unfortunately, without possessing the slightest knowledge of medicine, I have become celebrated here as a physician, owing to the great quantity of quinine and tincture of arnica which I brought with me and distributed liberally, and by means of which, in October and November of last year, I cured all fever patients and wounds. In consequence of this, my valuable time is now claimed in a troublesome manner by sick people, who frequently come from a distance of many miles, in order to be healed of their complaints by my medicine and advice. In all the villages of this district, the priest is the parish doctor, and as he himself possesses no medicines, and is ignorant of their properties, and has besides an innate dislike to cold water and all species of washing, he never uses any other means than bleeding, which, of course, often kills the poor creatures. Wrinkles on either side of the lips of children from 10 to 12 years of age show that the priest has repeatedly bled them. Now I hate the custom of bleeding, and am enthusiastically in favour of the cold-water cure; hence I never bleed anyone, and I prescribe sea-bathing for almost all diseases; this can be had here by everyone, except myself, who have no time for it. My ordering these baths has given rise to such confidence, nay enthusiasm, that even women, who fancied that it would be their death to touch their bodies with cold water, now go joyfully into the water and take their dip. Among others, a fortnight ago, a girl of seventeen from Neo-Chori was brought to me; her body was covered with

ulcers, especially her face, and one terrible ulcer on the left eye had made it quite useless. She could scarcely speak, walk or stand, and, as her mother said, she had no appetite: her chest had fallen in, and she coughed. I saw immediately that excessive bleeding and the consequent want of blood had given rise to all her ailments, and therefore I did not ask whether she had been bled, but how many times. The answer was, the girl had taken cold, and the parish priest had bled her seven times in one month. I gave her a dose of castor oil, and ordered her a sea bath every day, and that, when she had recovered sufficient strength, her father should put her through some simple passive gymnastic exercises—which I carefully described—in order to expand her chest. I was quite touched when early this morning the same girl appeared on the platform, threw herself on the ground, kissed my dirty shoes, and told me, with tears of joy that even the first sea bath had given her an appetite, that all the sores had begun to heal directly, and had now disappeared, but that the left eye was still blind, otherwise she was perfectly well, for even the cough had left her. I, of course, cannot cure the eye; it seems to me to be covered with a skin which an oculist might easily remove. The girl had come on foot from Neo-



Page 143.

TROJAN BUILDINGS ON THE NORTH SIDE, AND IN THE GREAT TRENCH CUT THROUGH THE WHOLE HILL.

CHAPTER X.

A third platform dug — Traces of former excavations by the Turks — Block of triglyphs, with bas-relief of Apollo — Fall of an earth-wall — Plan of a trench through the whole hill — Admirable remains in the lowest stratum but one — The plain and engraved whorls — Objects of gold, silver, copper, and ivory — Remarkable terra-cottas — The pottery of the *lowest stratum* quite distinct from that of the next above — Its resemblance to the Etruscan, in quality only — Curious funereal urns — Skeleton of a six months' embryo — Other remains in the lowest stratum — Idols of fine marble, the sole exception to the superior workmanship of this stratum — The houses and palaces of the lowest stratum, of large stones joined with earth — Disappearance of the first people with the destruction of their town.

The *second settlers*, of a different civilization — Their buildings of unburnt brick on stone foundations — These bricks burnt by the great conflagration — Destruction of the walls of the former settlers — Live toads coëval with Troy! — Long duration of the second settlers — Their Aryan descent proved by Aryan symbols — Various forms of their pottery — Vases in the form of animals — The whorls of this stratum — Their interesting devices — Copper weapons and implements, and moulds for casting — Terra-cotta seals — Bracelets and ear-rings, of silver, gold, and electrum — Pins, &c., of ivory and bone — Fragments of a lyre — Various objects.

The *third stratum*: the remains of an Aryan race — Hardly a trace of metal — Structure of their houses — Their stone implements and terra-cottas coarser — Various forms of pottery — Remarkable *terra-cotta balls* with astronomical and religious symbols — Whorls — Stone weapons — Whetstones — Hammers and instruments of diorite — A well belonging to this people — This third town destroyed with its people.

The *fourth settlers*: compararively savage, but still of Aryan race — Whorls with like emblems, but of a degenerate form — Their pottery inferior, but with some curious forms — Idols of Athena — Articles of copper — Few stones — Charred remains indicating wooden buildings — Stone weights, hand-mills, and knives and saws of flint — With this people the pre-Hellenic ages end — The stone buildings and

painted and plain terra-cottas of *Greek Ilium* — Date of the Greek colony — Signs that the old inhabitants were not extirpated — The whorls of very coarse clay and patterns — Well, and jars for water and wine — Proofs of the regular succession of nations on the hill — Reply to the arguments of M. Nikolaïdes for the site at Bunarbashi — The Simoïs, Thymbrius, and Scamander — The tomb of Ajax at In-Tépé — Remains in it — Temple of Ajax and town of Aianteum — Tomb of Achilles and town of Achilleum — Tombs of Patroclus and Antilochus — The Greek camp — The tomb of Batiea or Myrina — Further discussion of the site.

On the Hill of Hissarlik, June 18th, 1872.

SINCE my report of the 23rd of last month I have been excavating, with the consent of my honoured friend, Mr. Frank Calvert, on that half of the hill which belongs to him, on condition that I share with him the objects I may find. Here, directly beside my large platform, and at a perpendicular depth of 40 feet below the plateau, I have laid out a third platform about 109 feet broad, with an upper terrace 112 feet broad, and I have seventy men digging there. Immediately beside the edge of the steep northern declivity I found a square depression in the ground about 112 feet long and 76 feet broad, which can only have been caused by excavations made by the Turks hundreds of years ago, when searching for pillars or other kinds of marble blocks

sculpture in high relief, a little above 2 feet 10 inches long and nearly the same height, which represents Phœbus Apollo, who, in a long woman's robe with a girdle, is riding on the four immortal horses which pursue their career through the universe. Nothing is to be seen of a chariot. Above the splendid, flowing, unparted, but not long hair on the head of the god, there is seen about two-thirds of the sun's disc with ten rays $2\frac{1}{3}$ inches long, and ten others $3\frac{1}{2}$ inches long. The face of the god is very expressive, and the folds of his long robe are so exquisitely sculptured that they vividly remind one of the masterpieces in the temple of Νίκη ἄπτερος in the Acropolis of Athens. But my admiration is especially excited by the four horses, which, snorting and looking wildly forward, career through the universe with infinite power. Their anatomy is so accurately rendered that I frankly confess that I have never seen such a masterly work. On the right and left of this metopé are Doric triglyphs; there is a third triglyph on the left side of the marble block, which is nearly 22 inches thick, whereas the right side (14 inches thick) contains no sculpture. Above and below the block, iron clamps are fastened by means of lead; and from the triglyphs on the left side I presume that this metopé, together with another sculpture which has a Doric triglyph on the right side as well, adorned the propylæa of the temple.* (*See Plate IV.*, p. 32.)

It is especially remarkable to find the sun-god here, for Homer knows nothing of a temple to the Sun in Troy, and later history does not say a word about the existence of such a temple. However, the image of Phœbus Apollo does not prove that the sculpture must have belonged to a temple of the Sun; in my opinion it may just as well have served as an ornament to any other temple.

As early as my report of the 11th of May,* I ventured

* Chapter VIII.

to express the conjecture that the image of the Sun, which I find represented here thousands and thousands of times upon the whorls of terra-cotta, must be regarded as the name or the emblem of the town, that is Ἴλιος. I now venture to express the opinion, that in like manner this Sun-god shone in the form of a woman upon the Propylæa of the temple of the Ilian Athena as a symbol of the Sun-city (τῆς Ἰλίου). I have heard a learned friend express the opinion that this masterpiece belonged to the period between Pericles and Alexander the Great, because the Sun-god's outstretched hand is very similar to that of Phœbus Apollo on the coins of Rhodes of the same period. But, according to Strabo (XIII. 1), Alexander the Great, on his visit to Ilium, found there a little temple (ἐντελῆ ναόν) of the Ilian Athena; and a little temple, of course, cannot have possessed such excellent works of plastic art. Besides this, the head of the Sun-god appears to me to have so much of the Alexandrian style, that I must adhere to history and believe that this work of art belongs to the time of Lysimachus, who, according to Strabo (XIII. 1), after the death of Alexander the Great, built here the new temple of the Ilian Athena, which Alexander had promised to the town of Ilium after the

temple—can only be explained by the fact that the Turks who came here in search of monumental pillars despised this sculpture because it represented living creatures, the imitation of which is strictly forbidden in the Koran.

Beneath the ruins of this temple I hope to discover the remains of that little temple which Alexander the Great found here. I do not, however, think it likely that I shall discover in its depths the old Trojan temple in which Hecuba caused the priestess Theano to lay her costly robes on the knees of Athena.* To judge from the *débris* of the ashes of animal sacrifices, which is as hard as stone, and which gives me such exceedingly great trouble along an extent of 82 feet at the eastern end of my large platform, the area of the very ancient temple cannot possibly be identical with the one built by Lysimachus; it must certainly be somewhat more to the west, and must commence somewhere near its western end.

After my report of the 23rd of last month, I began to loosen the lower earthen wall, which is as hard as stone, by means of those immense iron levers which I have already described. However, I was unfortunate; for, after having worked for three hours with 40 men and with the huge levers and windlasses in loosening an earthen wall 16 feet high, 16 broad and 10 thick, which had been already prepared by shafts and mines, only just succeeded after the strongest chains had given way several times, when the adjoining earth-wall fell of its own accord, and buried Georgios Photidas and a workman who were engaged in the

* *Iliad*, VI. 302–304:—

Ἡ δ' ἄρα πέπλον ἑλοῦσα Θεανὼ καλλιπάρῃος
Θῆκεν Ἀθηναίης ἐπὶ γούνασιν ἠϋκόμοιο,
Εὐχομένη δ' ἠρᾶτο Διὸς κούρῃ μεγάλοιο.

"But fair Theano took the robe and placed
On Pallas' knees, and to the heavenly maid,
Daughter of Jove, she thus addressed her prayer."

lower excavations, believing that they were perfectly safe under thick logs of wood 23 inches high and 10 thick, which were covered with planks 3 inches thick. All of us naturally thought that the two men must have been crushed beneath the enormous mass of 100 cubic yards of stone and earth, which had dashed the thick planks to pieces. Our fright was terrible, but without losing a moment we set to work to rescue the unfortunate men. We had scarcely begun when we heard them moaning beneath the weight of earth, for the logs had only been upset, and, lying lengthwise, they still partly supported the vault, so that the men had breathing space left. But their release could not be effected without the greatest danger, owing to several large gaps in the cracked earthen wall, and the men had to be cut out. I myself cut out Georgios Photidas with my knife; the other man was cut out by my men.

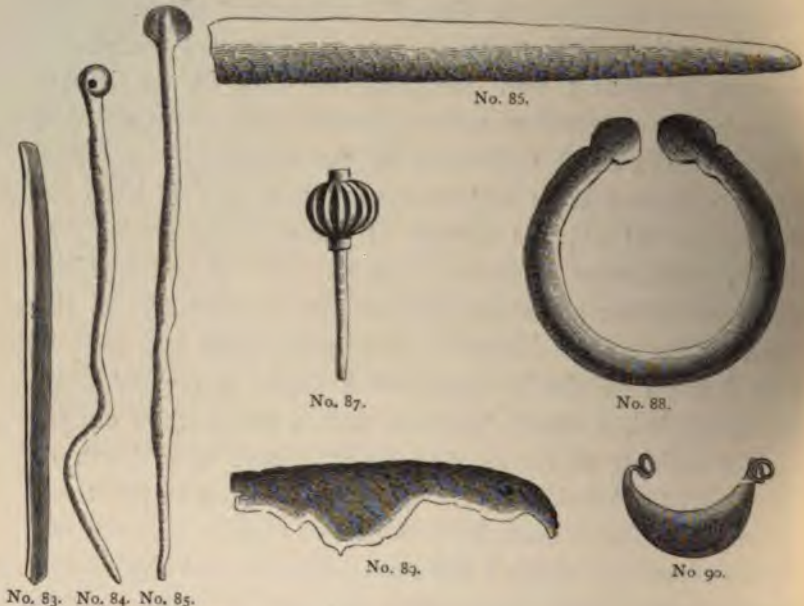
In consequence of this accident, I have decided in the first place to cut a trench 98 feet broad at the top and 65 below, commencing at the platform, which is to be carried along the primary soil through the entire hill, and not to cut through the other portion of the great platform until this is finished; for I shall then be in a position to

the ruins of the Homeric Troy.* For at this depth I have again found, as I found last year, a thousand wonderful objects; whereas I find comparatively little in the lowest stratum, the removal of which gives me such unspeakable trouble. We daily find some of the whorls of very fine terra-cotta, and it is curious that those which have no decorations at all, are always of the ordinary shape and size of small tops or like the craters of volcanoes, while almost all those possessing decorations are flat and in the form of a wheel.† Metals, at least gold, silver and copper, were known to the Trojans, for I found a copper knife highly gilded, a silver hair-pin, and a number of copper nails at a depth of 14 meters (46 feet); and at a depth of 16 meters (52½ feet) several copper nails from 4 to 6¼ inches in length. There must have been also copper weapons and tools for work, though I have as yet not found any; but I found many small instruments for use as pins; also a number of ivory needles, likewise a small ivory plate, almost the shape of a playing-card, with six little stars or small suns, also a curious piece of ivory covered with the same decorations, in the form of a paper-knife, and a still more curious one in the form of an exceedingly neat dagger.‡ The ornaments on both sides of this dagger seem certainly to represent the Ilian Athena with the owl's head. We also discovered some ivory and copper rings, likewise a pair of bracelets of copper. One-edged or double-edged knives of white silex in the form of saws, from above 1¾ inch to nearly 2 inches in length, were found in quantities; also many hand millstones of lava about 13 inches long, and 6¾ inches broad, in the form of an egg cut in half longitudinally. All of the terra-

* The reader should bear in mind that Dr. Schliemann finally came back to this opinion. It is not "*second* thoughts" (say the authors of 'Guesses at Truth'), but *first* and *third* thoughts, that are "best."—[ED.]

† Compare the sections shown on Plate XXI.

‡ See No. 14, on page 36.



No. 85.

No. 87. No. 88.

No. 83. No. 84. No. 85.

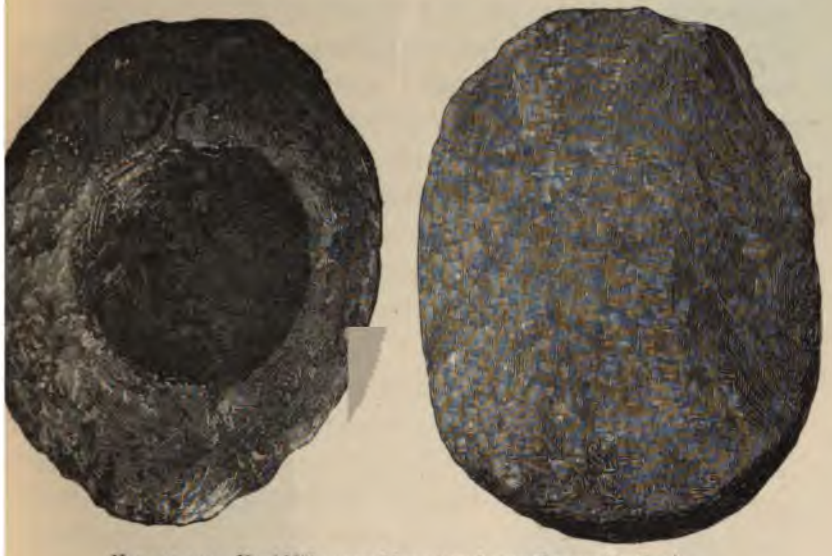
No. 83. No. 90.

No. 91.

Objects of Metal from the Lowest Stratum (11–15 M.).

No. 83. A real Copper Nail. Nos. 84, 85. Copper Dress-Pins (too long and thin for nails).
No. 86. A *gilt* Copper Knife. No. 87. A Silver Dress-Pin. No. 88. A Copper Bracelet.
Nos. 89, 91. Copper Knives. No. 90. A Silver Crescent.

Nos. 92–101. Ivory Pins, Needles, &c., from the Lowest Stratum (11–15 M.).



Nos. 102, 103. Hand Mill-stones of Lava from Lowest Stratum (14–16 M.).

No. 104. A splendid Vase with Suspension-rings, from the Lowest Stratum (15 M.).

cottas were brought out in a broken condition; however, I have got all or almost all the pieces of a number of vases and of several jars, so that I can restore them. I must specially mention a large yellowish bowl 13⅓ inches high and nearly 17 inches broad, which in addition to a handle has three large curled ram's horns; then a black vase with a round bottom, with two rings on either side for hanging it up; a beautiful red vase with four handles; also a very fine red cup: further, an exceedingly curious red vessel in the form of two jugs with long perfectly upright beak-shaped mouths, the two jugs being connected with each other at the bulge, as well as by a handle; further, a brilliant black vase, 9½ inches high, with rings on the sides for hanging it up, and a very wide neck in the form of a chimney; the lower portion of the vase is ornamented with signs in the form of lightning, the upper part with dots. Of a pair of brilliant black Trojan deep plates I have so nearly all the pieces, as to be able to put them together; these plates are very remarkable, for on two sides at the edge they have long horizontal rings for suspension by

No. 105. Singular Double Vase from the lowest Stratum (13–14 M.).

No. 106. Black Vase of Terra-cotta from the lowest Stratum (14 or 15 M.).

strings; the large dishes have such rings very large. I have the fragments of several black double cups, but not enough of any one to restore it.

Unfortunately, the tremendous weights of stone in the lowest stratum have broken or crushed to pieces all the terra-cottas; but all the splendid earthen vessels that I have been able to save bear witness of wealth and art, and it is easily seen at a first glance that they were made by a people quite distinct from the one to which the next stratum belongs (at the depth of from 7 to 10 meters, 23 to 33 feet). I must draw especial attention to the great similarity in the quality of the terra-cotta of the black Trojan vessels to that of the vessels found in the Etruscan tombs; but their forms and decorations are wholly different. In those found here the patterns have always been engraved upon the clay when it was still in a soft state. Most of the Trojan terra-cottas are indestructible by moisture; some of them, however, have become limp by damp, and I found, for instance, upon the primary soil at a depth of 15½ meters (51 feet), in a small private burial-ground, formed and protected by three stones 25½ inches long and 18 inches broad, two vessels of a very remarkable form with three long feet and filled with human ashes. The vessels had suffered so from moisture that in spite of every care and precaution I could not get them out without breaking them completely. I have, however, collected all the pieces

No. 107. Funereal Urn of Stone, found on the Primary Rock, with Human Ashes in it (15½ M.).

of both vessels, and shall be able to restore them. In one of them I found among the human ashes the bones of an embryo of six months, a fact which I can only explain by the mother's having died in pregnancy and having been burnt, while the bones of the embryo, being surrounded by the membrane which enclosed it, were protected and remained uninjured. Yet it seems wonderful that these small bones should have been preserved, for the bones of the mother are burnt to ashes and I found only small fragments of them. I have most carefully collected the bones of the Trojan embryo, and shall have the little skeleton restored by a skilful surgeon. The celebrated Doctor Aretaios, of Athens, has just written to me that the preservation of the bones of the embryo is only possible on the supposition that the mother had brought forth the child and then died, that her body was burnt and the unburnt embryo was put into the funereal urn with her ashes, where I found it.

In the deepest strata we also meet with simple black cups, resembling our drinking-glasses; likewise black cups (vase-covers) with a handle below, so that they can only stand upon their mouth. I also find on the primary soil weights made of granite, the exact specific weights of which I shall state in a separate table;* hammers and axes, as well as a number of large and small wedges of diorite, of splendid workmanship; sometimes also small beautifully-cut in-

much better workmanship than those above. In fact, the idols met with in the Trojan [pre-Trojan] strata of *débris*

No. 108. *a*, Hand Millstone of Lava (15 M.). *b*, Brilliant black Dish with side Rings for hanging it up (14 M.).
c, *c*, *c*, *c*, Small decorated Rings of Terra-cotta (10–14 M.).

from 2 to 4 meters (6½ to 13 feet) above the primary soil, that is, at a depth of from 12 to 14 meters (39¼ to 46 feet), are so coarsely wrought, as may be seen from the drawings (on page 36), that one might be inclined to believe that they were the very first attempts of an uncivilized people at making plastic representations of a deity. There was only one mutilated idol of terra-cotta found among these ruins, a drawing of which I give; all the others are of very fine marble. I must also mention another Priapus, of fine marble, which was discovered at a depth of 13 meters (42½ feet).

No. 109.
Rude Terra-cotta Idol (14 M.).

In these depths we likewise find many bones of animals, boars' tusks, small shells, horns of the buffalo, ram, and stag, as well as the vertebræ of the shark.

The houses and palaces, in which the splendid terra-cottas were used, were large and spacious, for to them belong all those mighty heaps of large stones hewn and unhewn, which cover them to the height of from 13 to 20 feet.

These houses and palaces were easily destroyed, for the stones were only joined with earth, and when the walls fell everything in the houses was crushed to pieces by the immense blocks of stone. The primitive Trojan people disappeared simultaneously with the destruction of their town, for in none of the succeeding layers of *débris* do we find the style of architecture to consist of large blocks of stone joined with earth; in none do we find the terra-cottas—with the exception of the round articles in the form of tops and volcanoes—to possess any resemblance with the excellent and artistic earthenware of the people of Priam.*

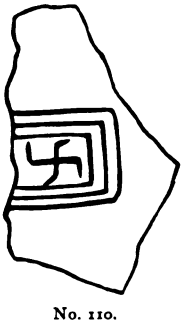
Upon the site of the destroyed city new settlers, of a different civilization, manners and customs, built a new town; but only the foundation of their houses consisted of stones joined with clay; all of the house-walls were built of unburnt bricks. Many such walls may be seen at a depth of from 7 to 10 meters (23 to 33 feet) in the earthén sides of my excavations; they have been preserved through the very fact that the houses were burnt out, and the walls of unburnt bricks, through the great heat, received a sort of brick-crust, or became actually burnt bricks.

In my memoir of the 23rd of last month, I spoke of a stone wall, found at a depth of 33 feet, which I hoped

belonging to ancient Troy; and that, until now, I have only been able to present archæology with a few splendid urns, vases, pots, plates, and dishes, and with but one bowl (*crater*). (See Cut, No. 41, p. 74.) Yet I have found thousands of fragments of other excellent vessels, the sad memorials of a people whose fame is immortal.

I cannot conclude the description of the lowest stratum without mentioning that among the huge blocks of stone, at a depth of from 12 to 16 meters (39½ to 52½ feet), I found two toads; and at a depth of 39½ feet a small but very poisonous snake, with a scutiform head. The snake may have found its way down from above; but this is an impossibility in the case of the large toads —they must have spent 3000 years in these depths. It is very interesting to find in the ruins of Troy living creatures from the time of Hector and Andromache, even though these creatures are but toads.*

I must also draw attention to the fact that I have found the 卐 twice on fragments of pottery, one of which was discovered at a depth of 16 meters (52½ feet), the other at 14 meters (46 feet). The primitive Trojans, therefore, belonged to the Aryan race, which is further sufficiently proved by the symbols on the round terra-cottas.



No. 110.
Fragment of Pottery, with the *Svastika*, from the lowest Stratum (14 M.).

The existence of the nation which succeeded the Trojans was likewise of a long duration, for all the layers of *débris* at the depth of from 10 to 7 meters (33 to 23 feet) belong to it. They also were of Aryan descent, for they possessed innumerable Aryan religious symbols. I think I have proved that several of the

* We believe that naturalists are now agreed that such appearances of toads imprisoned for long periods are deceptive. Into what depths cannot a tadpole (whether literal or metaphorical) wriggle himself down?—[ED.]

symbols were common to our ancestors at a time when Germans, Pelasgians, Hindoos, Persians, Celts, and Greeks still formed one nation. I found no trace of a double cup among this people, but instead of it, those curious cups (vase-covers) which have a coronet below in place of a handle; then those brilliant red fanciful goblets, in the form of immense champagne-glasses, with two mighty handles on the sides: they are round

Nos. 111, 112. Double-handed Vases of Terra-cotta, from the Trojan Stratum (9 M.).

below, so that they also can only stand on their mouths. Further, those small covers, from about 4 to 4¾ inches high, with owls' faces, with a kind of helmet on the lower end, furnished with a high button or tuft, which is, no doubt, intended to represent the crest of a helmet and served as a handle. This cup likewise can only stand on its mouth.* Further, all those splendid vessels of burnt earthenware—as, for instance, funereal, water, or wine urns, 5 feet high and from 1¾ to 3¼ feet in

* This description itself suggests an inversion of the so-called "cup," which is, in fact, a vase-cover. For its form see No. 74, on p. 115.—[ED.]

diameter; also smaller funereal urns, plates, dishes, and vases, of exceedingly fanciful forms, and from about 8 to 10 inches in height, with the owl's face of the tutelary goddess of Troy, two female breasts, and a navel, besides the two upraised arms on each side of the head, which served as handles; further, all of those vessels with a beak-shaped mouth, bent back, and either short or long. Most of these vessels are round below, so that they cannot stand; others have three feet; others, again, are flat-bottomed. The neck of many is so much bent backwards that it resembles a swan or a goose. To this class also belong all of those globular and egg-shaped vessels, small and large, with or without a neck like a chimney, which have a short ring on either side, and a hole in the same direction in the lip, through which was passed the string for suspending them; many have in addition three little feet. All are of uniform colour, either brown, yellow, red, or black; some have rows of leaves or twigs as decorations. I also meet with very curious vases, in the shape of animals, with three feet. The mouth of the vessel is in the tail, which is upright and very thick, and which is connected with the back by a handle. Upon one of these last-mentioned vases there are decorations, consisting of three engraved stripes of three lines each. I formerly found the Priapus only at a depth of 7 meters (23 feet); but a short time ago I found one at a depth of 13 meters (42½ feet). I now find it again at 8 meters (26 feet)

No. 113. A Trojan Vase in Terra-cotta of a very remarkable form (8 M.).

that is, among the ruins of the nation of which I am at present speaking. In these strata we also meet with an immense quantity of those round terra-cottas (the whorls), which, it is true, deviate from the wheel-shape of the articles found on the primary soil owing to their greater thickness, and are also not of such excellently-burnt clay as those; but, as anyone may convince himself by examining the drawings, they are embellished with uncommonly beautiful and ingenious symbolical signs. Among these the Sun-god always occupies the most prominent position; but the fire-machine of our primeval ancestors, the holy sacrificial altar with blazing flames, the holy sôma-tree or tree of life, and the *rosa mystica*, are also very frequently met with here. This mystic rose, which occurs very often in the Byzantine sculptures, and the name of which, as is well known, is employed to designate the Holy Virgin in the Roman Catholic Litanies, is a very ancient Aryan religious symbol, as yet, unfortunately, unexplained.* It is very ancient, because I find it at a depth of from 7 to 10 meters (23 to 33 feet) in the strata of the successors to the Trojans, which must belong to a period about 1200 years before Christ.†

No. 114. Engraved Terra-cotta Vessel in the form of a Pig (or Hedgehog ?). 7 M.

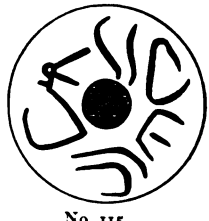
The sign which resembles the Phœnician letter "Nun" I found represented sixteen times‡ upon one of those round

* See Plate XXIII., No. 339; Plate XLVII., No. 478.

† According to Dr. Schliemann's later view these "successors to the Trojans" were, as we have seen, the Trojans themselves.—[ED.]

‡ The drawing, Plate XLVII., No. 480, shows the sign 20 times in 5 groups of 4 each. This seems to be a similar type to the one described, but from a lesser depth.—[ED.]

terra-cottas from a depth of 8 meters (26 feet); for these signs stand in groups of four, and by their position form a cross round the sun, or, if my present supposition is right, round the nave of the wheel representing the chariot of the sun. I also find the symbol of lightning in all the higher strata up to 10 feet below the surface. In all the strata, from a depth of 33 feet up to 1¾ feet below the surface, I find engravings of the sun with its rays innumerable times upon the round terra-cottas, exactly as it is represented on the head of the Sun-god on the metopé which I discovered when excavating the temple; but more frequently still in circles of three, four, five, six or eight double, treble or quadruple rising suns, and in by far the greater number of cases it stands in the centre of four treble rising suns, which form a cross round it. Hundreds of times I find the sun surrounded by stars in the centre of a double or treble cross, which has a large dot on every one of the four ends. These dots probably denote the four nails which fixed the wooden frame by which the holy fire was prepared. At the depth of from 10 to 7 meters (33 to 23 feet) I also found although more rarely, five mystic roses in a circle round the sun. One with signs, which may probably prove to be not merely symbols, but actual letters, I found at a depth of 7 meters (23 feet).* I have still to mention those round articles from the same depth, which have three mystic roses and two sheaves of sun-rays in the circle round the sun. Further, from a depth of 9 meters (29½ feet) I have several round pieces, upon which there are 14 crooked sheaves of three sun-rays each, resembling the sails of a windmill, which radiate in all directions from the sun, while the compartments between the sheaves of rays are filled with stars. This representation must indicate the rotation



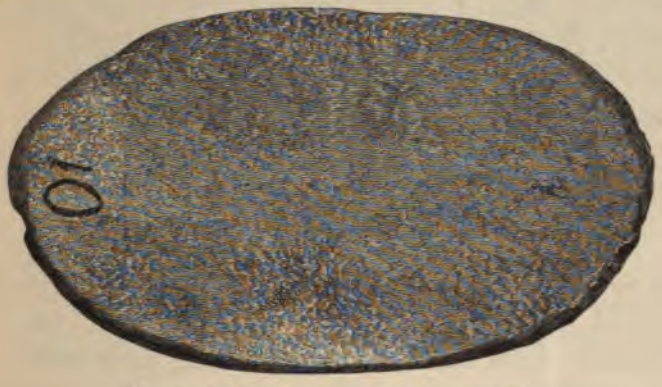
No. 115.
Inscribed Whorl (7 M.).

* The inscription, which Professor Gomperz has pointed out, is identical with that on Pl. LI., No. 496. (See pp. 83–84 and Appendix.)—[Ed.]

of the wheel in the course of the sun's chariot in the heavens, that is, if the supposition I before ventured to make, that the round objects represent the wheel, is correct. Another, found at the same depth, has on one side three holy sacrificial altars covered with flames, and a group of stars; on the other side three similar altars, and a suastika forming a cross round the sun.* There also occur some with only four curved sheaves of rays, or two 卐 and two flaming altars in a cross round the sun; there is again another upon which two crosses stand opposite each other, and all the rest of the space round the sun (or round the nave of the wheel) is filled with stars. All the whorls met with at a depth of from 10 to 7 meters (33 to 23 feet) are made of clay, for the most part of black or red clay, and as hard as stone, which, in comparison with that of the whorls in the higher strata, is distinguished by its fineness. We also find in these strata some whorls made of lead or fine marble, but they have no decorations.

In the strata of the same nation I found also copper battle-axes, lances, arrows, knives, and implements of different kinds, as well as a number of moulds of schist and chlorite slate for casting these and many other objects, some being of forms quite unknown to me.

a hole through the centre for throwing them. Sling-bullets made of loadstone, and great quantities of knives made of white or yellow silex in the form of saws, sometimes also knives of volcanic glass and lances of diorite are met



No. 117. A Trojan Hand Mill-stone of Lava (10 M.).

No. 118.
A Piece of Granite, perhaps used, by means of a wooden Handle, as an upper Mill-stone (10 M.).

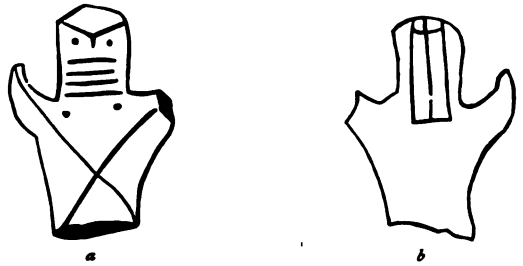
No. 119.
A massive Hammer of Diorite (10 M.).

No. 120.
Piece of Granite, probably used as a Pestle. From the lowest Stratum (11–16 M.).

with among the ruins of this people, but all these instruments are much better finished than in the strata above a depth of 7 meters (23 feet).

I likewise find in these strata numerous idols of very fine marble, and upon a number of them are engraved the

owl's face of the Ilian Athena and her girdle. At a depth of 8 meters (26 feet) we discovered a terra-cotta idol of the same tutelary goddess; four horizontal strokes on the neck

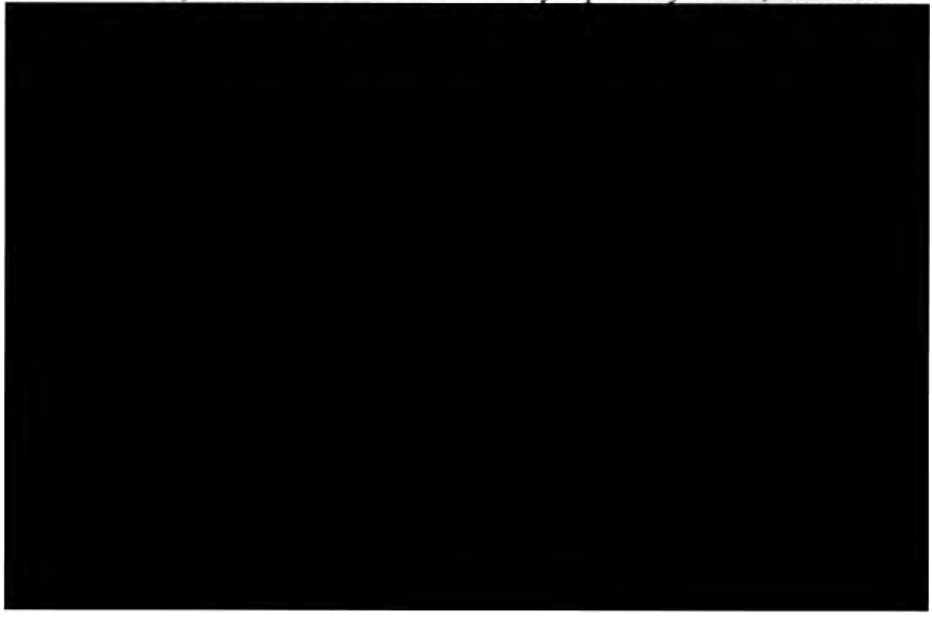


a *b*

No. 121. Idol of Athena (8 M.). *a*. Front; *b*. Back.

seem to denote her armour; only one of the arms has been preserved, which is in an upright position; two lines proceeding from the arms and crossing each other over the body give her a warlike appearance; her breasts are indicated by two points; her long hair is distinctly marked at the back of the head.

At a depth of 9½ meters (30½ feet) among the yellow ashes of a house which was destroyed by fire, I found a large lump of thick wire, which I believed to be copper wire, and therefore laid carelessly upon my table; but when



made of electrum (ἤλεκτρον): three of the ear-rings I know positively to be of electrum; there are, however, probably several others of electrum among the two bunches which I dare not attempt to loosen for fear of breaking the silver ear-rings which have suffered very much from rust.

According to Pliny (*H. N.* XXXIII. 23), and Pausanias (V. 12, § 6) electrum was an artificial compound of metals, four parts of gold and one of silver. The most ancient Lydian coins are likewise made of electrum.

At the same depth I not unfrequently find balls of serpentine or porphyry of nearly 2 inches in diameter, and with a hole through the centre. Besides these we find spoons made of bone or terra-cotta, and great quantities of instruments of ivory and bone for use as pins. I also found a

Nos. 122, 123, 124. Balls of fine red Agate; from the Trojan Stratum (9 M.).

very artistically carved piece of ebony, which is certainly part of a musical stringed instrument. I must also mention having found, not only in these depths, but also up to 6 meters (20 feet) below the surface, round pieces of terra-cotta with a hole running longitudinally through them, $2\frac{3}{4}$ inches long and $2\frac{1}{3}$ inches broad; and also pieces of terra-cotta from $2\frac{3}{4}$ to nearly 4 inches broad, flat below and rounded off at the top, with two holes at the edge of the broad surface, or with only one hole above running through from the side. All of these articles have probably served as weights. In all of the strata we discovered a number of the vertebræ of sharks, boars' tusks, antlers, and great quantities of the shells of small sea-mussels, of which the Trojans and their successors at all times must have been very fond.

I now come to the strata of *débris* at a depth of from 7 to 4 meters (23 to 13 feet), which are evidently also the remains of a people of the Aryan race, who took possession of the town built upon the ruins of Troy, and who destroyed it and extirpated the inhabitants; for in these strata of 10 feet thick I find no trace of metal beyond two nails and a small piece of silver wire, and the structure of the houses is entirely different. All the house-walls consist of small stones joined with clay; in the larger buildings the stones are more or less hewn, but in the smaller they are altogether rough. Visitors to the Plain of Troy can see in the earthen walls of my excavations, at these depths, a number of larger or smaller house-walls of this description. Among others are the remains of those huge walls 6½ feet thick, of which I spoke in my report of the 23rd of last month. The foundations lie at a depth of 20 feet, and they extend to within 10 feet below the present surface;* for as, with the exception of excavating the temple, I only

No. 125.
A curious Terra-cotta Cup (4 M.).

No. 126.
Terra-cotta Pitcher of a frequent form (6 M.).

* Chapter IX., pp. 132–3.

intend to make the trench through the hill 98 feet broad above, it has not been necessary to pull down the building entirely.

In these strata (at a depth of from 23 to 13 feet) not only are all the stone implements much rougher, but all

No. 127.
A small Terra-cotta Vase, with two Handles and three feet (6 M.)

No. 128.
Terra-cotta Vase of a frequent form (6 M.).

the terra-cottas also are of a coarser quality. Still it cannot be denied that with all their simplicity they possess a certain elegance, and I must especially mention the very pretty black or red vases in the form of hour-glasses with two large handles, the red ones being nearly 4 inches high, the black ones 5½ inches high; the small jars in the form of cups with large handles, the larger jars with one or two handles; but above all the frequently occurring covers with the owl's face of the tutelary goddess of Troy, which are, it is true, almost like those from a depth of from 30 to 23 feet in size, but considerably inferior in quality.

The terra-cotta balls found in these strata are especially remarkable, owing to their most varied symbols. I will describe two of these, found at a depth of 5 meters (16½ feet). The surface of the one is divided by lines into eight equal parts;* in one of these is a sun with ten rays, of which only four are straight, all of the others seem to represent religious symbols. One ray has the form of the Phœnician letter "Nun," and must denote lightning;

* See Plate LI., No. 493. M. Burnouf's drawings, from which our engraving is taken, seem to differ from Dr. Schliemann's description in a few of the minuter details.—[Ed.]

another ray has the form of a serpent; another again the form of the numeral III.; a fourth is the shape of a sign-post; and the remaining two in the form of fishing-hooks; beside the sun is a star. In the next division is a tree with eight branches, a quadrangle with two stars, and a triangle with four stars. The third field contains a tree with twelve branches; a circle with a star; and, beside and above a stroke, twelve stars, one of which has a dot in the centre. The twelve little stars may possibly denote the twelve signs of the zodiac, which, being the twelve stations of the sun, are personified in the Rigvêda by the twelve Adityas, sons of Aditi, the indivisible and infinite space. The fourth field contains a tree with only six branches, a triangle with three compartments, in one of which is a stroke, and also two squares. The fifth field has again a sun with six crooked rays and one straight ray. The sixth field has five divisions: in the first there are five, in the second four, and in the third seven little stars; the fourth division contains a sign resembling the numeral II., together with three stars; in the fifth division there is a simple cross. In the seventh field is a tree with ten branches. In the eighth field there is a figure like a serpent, and a star.

Upon the second terra-cotta ball there is a sun with

green slate with a hole at one end.* The use of these whetstones is not very clear to me, for, as I have already said, in the depths of from 7 to 4 meters (23 to 13 feet) I have found no trace of any metal beyond the two nails and the piece of silver wire. However, we came upon a few fragments of moulds for casting instruments, and hence it is probable that copper was known. In any case, however, it was rare and costly, for otherwise I should not have found such colossal masses of stone instruments.

I found in these depths a large number of curious large vases, and among them several beautiful urns with the owl's head of the Ilian Athena, her two female breasts, navel, and the two upraised arms beside the head. Upon one of the navels is a cross and four holes, which are doubtless intended to represent the four nails employed by our Aryan ancestors to fasten the two pieces of wood which were laid crosswise for producing the holy fire.† In these strata I also discovered a number of those cups in the form of champagne-glasses with two handles, which however, as may be seen from the drawings, become clumsier, smaller, and inferior in quality at every yard the higher we ascend. Cups with coronets below (vase-covers) also occur, likewise many small red jars with three feet and two handles, and several hundreds of uncoloured jars, with a handle from nearly 4 to 4¾ inches high. There are also enormous masses of large clumsy hammers and other instruments of diorite; I also found a Priapus of diorite, which is above 12½ inches high and 7¾ inches thick.

No. 129.
Terra-cotta Vase of a form frequent at the depth of 3–5 M.

There is a well belonging to this nation, built of good hewn stones cemented with clay; its opening is at a depth

* See No. 5, p. 24.—[ED.] Perhaps they were used to polish the terra-cotta vases.

† See No. 13, p. 35.

of 13 feet. I have had it cleared out almost as far as the primary soil; one wall of this well is still to be seen on the left side of the northern entrance of my great cutting. Hand mill-stones of lava are also found in immense numbers in these strata.

A new epoch in the history of Ilium commenced when the accumulation of *débris* on this hill had reached a height of 4 meters (13 feet) below its present surface; for the town was again destroyed, and the inhabitants killed or driven out by a wretched tribe, which certainly must likewise have belonged to the Aryan race, for upon the round terra-cottas I still very frequently find the tree of life and the simple and double cross with the four nails. In these depths, however, the form of the whorls degenerates; they become more elongated and pointed; I also find many in the form of cones about $1\frac{1}{5}$ inch to $1\frac{1}{2}$ inch in height, which

ampagne-glasses continue to be inferior in quality, they are ays smaller and coarser, and are now only about 5 inches gh, whereas at a depth of feet they were 12⅔ inches gh. Several vases with female easts, navel, and upraised ns, occur at a depth of 4

Nos. 132, 133. Owl-faced Vase-covers (3 M.). The second is of an unusual form.

Nos. 134, 135. Two-handled Cups from the upper Stratum (2 M.).

No. 136. Terra-cotta Vase (2 M.). No. 137. Perforated Terra-cotta (2 M.).

eters (13 feet), one at a depth of 2½ meters (about 8 feet). mall red vases in the form of hour-glasses with a handle e still frequently met with; two were found at as small depth as 2 meters (6½ feet). A very great number of

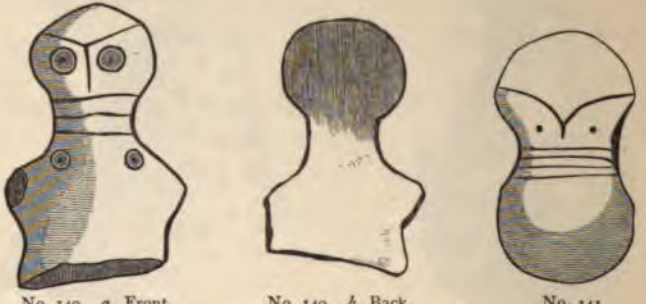
small ordinary jars were found at a depth of 4 and 3 meters (13 to 9¾ feet), but they almost entirely cease to be found at 2 meters (6½ feet) below the surface. At

a *b*

Nos. 138, 139. Deep Plates (*Asteria*) with Rings for suspension, placed (*a*) vertically or (*b*) horizontally (1 and 2 M.).

the depths of 4, 3, and even 2½ meters (13, 9¾, and 8 feet) I also found very many idols of the Ilian Athena, made of fine marble; upon several there are engravings of her owl's head and girdle.

At a depth of 3 meters (10 feet) I also found a terra-cotta idol, which represents this same goddess with the owl's face and two enormous eyes; she has two female breasts,



No. 140. *a*. Front. No. 140. *b*. Back. No. 141.

Idols of the Ilian Athena (3 M.).

and long hair hanging down behind. Three horizontal lines on the neck seem to denote armour. At the same depth I also found a small and splendid sacrificial basin of terra-cotta, with three feet; in the basin there are engraved

astika, a tree with twenty-four branches, and a cater-r.*

Copper was known to this people, for I discovered here es, lances, and nails made of this metal. The form of nails is often curious, for occasionally I find them with heads, one beside the other, sometimes with no head at ut merely two pointed ends, so that a kind of head had e made by bending over about $\frac{2}{3}$ of an inch at one of ends. Another proof of their knowledge of metals is ished by the moulds in mica-schist.

We find scarcely any stones in these strata, and the ses of charred ruins and wood-ashes leave no doubt all the buildings of this tribe made of wood. I find in these ta of 6½ feet thick some few stone ghts, also a couple of hand-mills lava, but otherwise no imple-its of stone except knives of in the form of saws, which n often to have been made with it care. Thus, for instance, at a th of 6½ feet I found a saw made ilex 4¾ inches in length and 1·3 breadth, which was so exquisitely le that I at first thought it must be a comb. The er portion of the saw bore the clearest marks of ing been encased in wood.

No. 142. Mould in Mica-schist for casting some unknown object (2½ M.).

With the people to whom these strata belonged—from 2 meters (13 to 6½ feet) below the surface—the pre-lenic ages end, for henceforward we see many ruined s of Greek buildings, of beautifully hewn stones laid ether without cement, and in the uppermost layer of all the ruins of house-walls, in which the stones are joined

* See Plate XLVIII., No. 484.

with lime or cement. Moreover, the painted and unpainted terra-cottas, occasionally found at a depth of 2 meters (6½ feet), leave no doubt that a Greek colony took possession of Ilium when the surface of this hill was still that much lower than it is now. It is impossible to determine exactly when this new colonization took place, but it must certainly have been much earlier than the visit of Xerxes reported by Herodotus (VII. 43), which took place 480 years before Christ. According to Strabo (XIII. 1. 42) the town was built under Lydian dominion, and hence this event may have taken place about 700 B.C., for the commencement of the Lydian dominion is assigned to the year 797 B.C. Fluted jars, which archæologists believe to belong to a period 200 years anterior to Christ, are found immediately below the surface, at a depth of from 1¾ to 3¼ feet. The Greek colony does not appear by any means to have at all extirpated the inhabitants of Ilium, for I still find a great deal of pre-Hellenic pottery at a depth of 6½ and even of 5 feet. At all events those round lamp-shaped terra-cottas with a potter's stamp and two holes at the edge, found as far down as 6½ feet, seem to me to be of Greek manufacture. The round articles with one hole through the centre, without or with decorations representing the sun and its rays, or the

for more than 1000 years by the four tribes which successively held possession of Ilium, and even by the civilized Greek colony, is to me a problem as inexplicable as the purpose for which they were used. If, as I now conjecture, they represent the wheel, which in the Rigvêda is the symbol of the sun's chariot, they were probably used as *Ex votos*, or they were worshipped as idols of the sun-god, Phœbus Apollo. But why are there such enormous numbers of them?

The well, which I last year discovered at a depth of 6½ feet, built of hewn stones with cement, belongs of course to the Greek colony; so also do all those enormous water and wine urns (πίθοι), which I met with in the uppermost strata. I find all of these colossal urns, as well as all those met with in the deeper strata, standing upright, which is the best proof, if indeed any were needed, that the mighty masses of *débris* cannot have been brought here from another place, but that they were formed gradually in the course of thousands of years, and that the conquerors and destroyers of Ilium, or at least the new settlers after its conquest and destruction, never had the same manners and customs as their predecessors. Consequently, for many centuries, houses with walls built of unburnt bricks stood upon the mighty heaps of stone, from 13 to 20 feet thick, belonging to the enormous buildings of the primitive Trojans; again, for centuries, houses built of stones joined with clay were erected upon the ruins of houses of brick; for another long period, upon the ruins of these stone houses wooden houses were erected; and lastly, upon the charred ruins of the latter were established the buildings of the Greek colony, which at first consisted of large hewn stones joined with clay or cement. It can thus no longer seem astonishing that these masses of ruins, covering the primary soil, have a thickness of from 14 to 16 meters (46 to 52½ feet) at the least.

I take this opportunity of giving a translation of the answer I made to an article published by M. G. Nikolaïdes

in No. 181 of the Greek newspaper "Ἐφημερὶς Συζητήσεων," in which the author endeavours to prove that I am giving myself unnecessary trouble, and that the site of Troy is not to be found here, but on the heights of Bunarbashi.*

"M. Nikolaïdes maintains that the site of Troy cannot be discovered by means of excavations or other proofs, but solely from the Iliad. He is right, if he supposes that Ilium is only a picture of Homer's imagination, as the City of the Birds was but a fancy of Aristophanes. If, however, he believes that a Troy actually existed, then his assertion appears most strange. He thereupon says that Troy was situated on the heights of Bunarbashi, for that at the foot of them are the two springs beside which Hector was killed. This is, however, a great mistake, for the number of springs there is forty, and not two, which is sufficiently clear from the Turkish name of the district of the springs, 'Kirkgiös' (40 eyes or springs). My excavations in 1868, on the heights of Bunarbashi, which I everywhere opened down to the primary soil, also suffice to prove that no village, much less a town, has ever stood there. This is further shown by the shape of the rocks, sometimes pointed, sometimes steep, and in all cases very irregular. At the end of the heights, at a distance of 11½ miles from the

one day, across the land which lay between the naval camp and the walls of Troy.

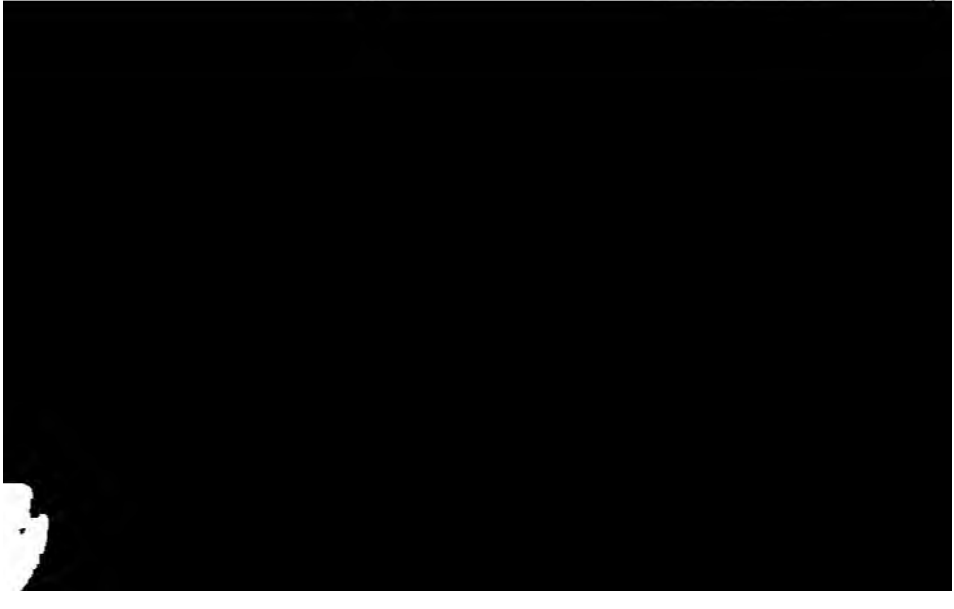
"M. Nikolaïdes's map of the Plain of Troy may give rise to errors; for he applies the name of Simoïs to the river which flows through the south-eastern portion of the Plain, whereas this river is the Thymbrius, as Mr. Frank Calvert has proved. In his excavations on the banks of that river, Mr. Calvert found the ruins of the temple of the Thymbrian Apollo, about which there cannot be the slightest doubt, owing to the long inscription which contains the inventory of the temple. Then on the map of M. Nikolaïdes I find no indication whatever of the much larger river Doumbrek-Su, which flows through the north-eastern portion of the Plain of Troy, and passed close by the ancient town of Ophrynium, near which was Hector's tomb and a grove dedicated to him.* Throughout all antiquity, this river was called the Simoïs, as is also proved by Virgil (*Æn.* III. 302, 305). The map of M. Nikolaïdes equally ignores the river which flows from south to north through the Plain, the Kalifatli-Asmak, with its enormously broad bed, which must certainly at one time have been occupied by the Scamander, and into which the Simoïs still flows to the north of Ilium. The Scamander has altered its course several times, as is proved by the three large river-beds between it and the bed of the Kalifatli-Asmak. But even these three ancient river-beds are not given in the map of M. Nikolaïdes.

"In complete opposition to all the traditions of antiquity, the map recognises the tomb of Achilles in the conical sepulchral mound of In-Tépé, which stands on a hill at the foot of the promontory of Rhœteum, and which, from time immemorial, has been regarded as the tomb of Ajax. During an excavation of this hill, in 1788, an

* Strabo, XIII. i. p. 103; Lycophron, *Cassandra*, 1208. See further, on the Simoïs, Note A, p. 358.

arched passage was found, about 3¾ feet high, and built of bricks; as well as the ruins of a small temple. According to Strabo (XIII. 1. p. 103), the temple contained the statue of Ajax, which Mark Antony took away and presented to Cleopatra. Augustus gave it back to the inhabitants of the town of Rhœteum, which was situated near the tomb. According to Philostratus (*Heroica*, I.), the temple, which stood over the grave, was repaired by the Emperor Hadrian, and according to Pliny (*H. N.*, V. 33), the town of Aianteum was at one time situated close to the tomb. On the other hand, throughout antiquity, the tomb of Achilles was believed to be the sepulchral mound on an elevation at the foot of the promontory of Sigeum, close to the Hellespont, and its position corresponds perfectly with Homer's description.*

"The field situated directly south of this tomb, and which is covered with fragments of pottery, is doubtless the site of the ancient town of Achilleum, which, according to Strabo (XIII. 1. p. 110), was built by the Mitylenæans, who were for many years at war with the Athenians, while the latter held Sigeum, and which was destroyed simultaneously with Sigeum by the people of Ilium. Pliny (*H. N.*, V. 33) confirms the disappearance of Achilleum. The Ilians he



A.—MOUND OF IN-TÉPÉ,

The traditional Tomb of Ajax, with the Ruins of his Temple.

B.—MOUND CALLED THE TOMB OF ACHILLES.

fices here in the temple of Achilles.* Caracalla also, accompanied by his army, offered sacrifices to the manes of Achilles, and held games around the tomb.† Homer never says anything about a river in the Greek camp, which probably extended along the whole shore between Cape Sigeum and the Scamander, which at that time occupied the ancient bed of the Kalifatli-Asmak. But the latter, below the village of Kumköi, is at all events identical with the large bed of the small stream In-tépé-Asmak, which flows into the Hellespont near Cape Rhœteum.

"M. Nikolaïdes further quotes the following lines from the Iliad (II. 811–815):—

> Ἔστι δέ τις προπάροιθε πόλιος αἰπεῖα κολώνη,
> Ἐν πεδίῳ ἀπάνευθε, περίδρομος ἔνθα καὶ ἔνθα,
> Τὴν ἤτοι ἄνδρες Βατίειαν κικλήσκουσιν,
> Ἀθάνατοι δέ τε σῆμα πολυσκάρθμοιο Μυρίνης.
> Ἔνθα τότε Τρωές τε διέκριθεν ἠδ' ἐπίκουροι.

> 'Before the city stands a lofty mound,
> Each way encircled by the open plain;
> Men call it Batiea; but the Gods
> The tomb of swift Myrina; mustered there
> The Trojans and Allies their troops arrayed.'

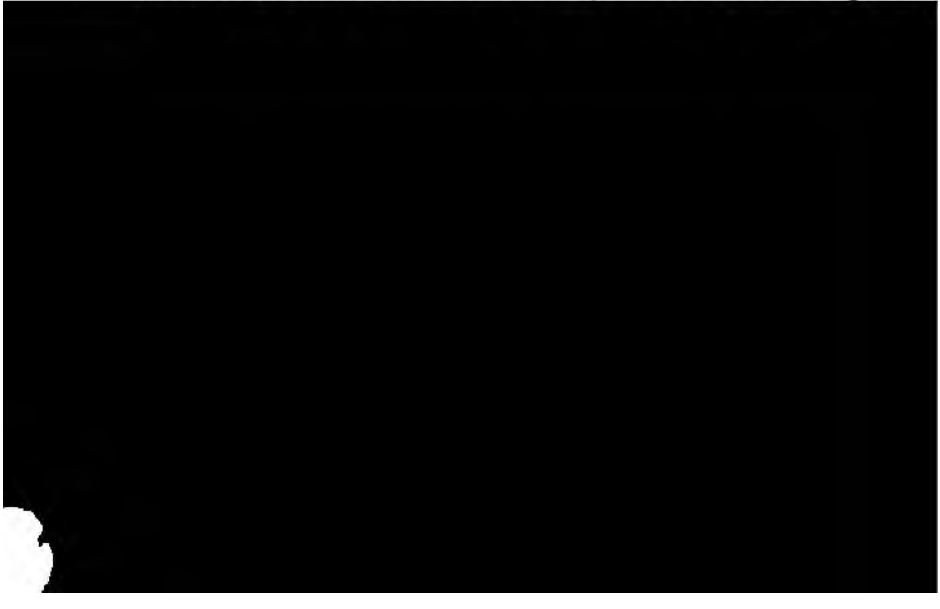
M. Nikolaïdes gathers from this, that in front of Ilium there was a very high hill, upon which the Trojan army of 50,000 men were marshalled in battle-array. I, however, do not interpret the above lines by supposing that the mound of Batiea was large and spacious, nor that 50,000 were marshalled upon it in battle-array. On the contrary, when Homer uses the word 'αἰπύς' for height, he always means 'steep and lofty,' and upon a steep and lofty height 50,000 Trojans could not possibly have been marshalled. Moreover, the poet expressly says that the steep hill is called by the gods the tomb of the nimble-limbed Myrina,

* Plutarch, 'Life of Alexander the Great'; Cicero, pro Archia, 10; Ælian, *V. H.*, 12, 7.

† Dio Cassius, LXXVII.

while 'Batiea,' the name which men gave the hill, can signify only 'the tomb of Batiea.' For, according to Apollodorus (iii. 12), Batiea was the daughter of the Trojan King Teucer, and married Dardanus, who had immigrated from Samothrace, and who eventually became the founder of Troy.* Myrina was one of the Amazons who had undertaken the campaign against Troy.† Homer can never have wished us to believe that 50,000 warriors were marshalled upon a steep and lofty tumulus, upon whose summit scarcely ten men could stand; he only wished to indicate the locality where the Trojan army was assembled; they were therefore marshalled round or beside the tumulus.

"M. Nikolaïdes goes on to say, that such a hill still exists in front of Bunarbashi, whereas there is no hill whatever, not even a mound, before Ilium Novum. My answer to this is that in front of the heights of Bunarbashi there are none of those conical tumuli called 'σήματα' by Homer, that however there must have been one in front of Hissarlik, where I am digging, but it has disappeared, as do all earthen mounds when they are brought under the plough.‡ Thus, for instance, M. Nikolaïdes, during his one day's residence in the Plain of Troy in the year 1867, still found the tumulus of Antilochus near the Scamander, for he speaks



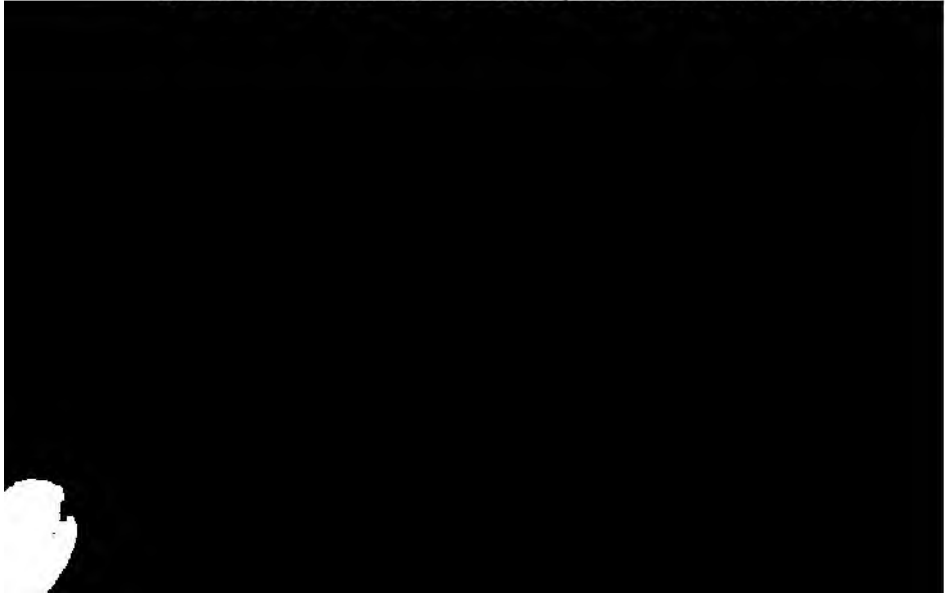
believed that the city stood on the site of the Homeric Ilium, and that it was identical with it. The only person who ever doubted its identity with Ilium, the city of Priam, was Demetrius of Scepsis, who maintained that the famous old city had stood on the site of the village of the Ilians (Ἰλιέων κώμη), which lies 30 stadia (3 geog. miles) to the south-east. This opinion was afterwards shared by Strabo, who however, as he himself admits, had never visited the Plain of Troy; hence he too calls the town 'τὸ σημερινὸν Ἴλιον,' to distinguish it from the Homeric Ilium. My last year's excavations on the site of the Ἰλιέων κώμη have, however, proved that the continuous elevation on one side of it, which appeared to contain the ruins of great town walls, contains in reality nothing but mere earth. Wherever I investigated the site of the ancient village, I always found the primary soil at a very inconsiderable depth, and nowhere the slightest trace of a town ever having stood there. Hence Demetrius of Scepsis and Strabo, who adopted his theory, were greatly mistaken. The town of Ilium was only named Ilium Novum about 1000 years after its complete destruction; in fact this name was only given to it in the year 1788 by Lechevalier, the author of the theory that the Homeric Ilium stood on the heights of Bunarbashi. Unfortunately, however, as his work and map of the Plain of Troy prove, Lechevalier only knew of the town from hearsay; he had never taken the trouble to come here himself, and hence he has committed the exceedingly ludicrous mistake, in his map, of placing his New Ilium 4¼ miles from Hissarlik, on the other side of the Scamander, near Kum-kaleh.

"I wonder where M. Nikolaïdes obtained the information that the city which he calls Ilium Novum was founded by Astypalæus in the sixth century B.C. It seems that he simply read in Strabo (XIII. 602), that the Astypalæans, living in Rhœteum, built on the Simoïs the town of Polion (which name passed over into Polisma), which, as

it had no natural fortifications, was soon destroyed, and that he has changed this statement of Strabo's by making the Astypalæans build Ilium Novum in the sixth century B.C. In the following sentence Strabo says that the town (Ilium) arose under the dominion of the Lydians, which began in 797 B.C. Whence can M. Nikolaïdes have obtained the information that the foundation of the town was made in the sixth century?

"M. Nikolaïdes further says that Homer certainly saw the successors of Æneas ruling in Troy, else he could not have put the prophecy of that dynasty into the mouth of Poseidon.* I also entertained the same opinion, until my excavations proved it to be erroneous, and showed undoubtedly that Troy was completely destroyed, and rebuilt by another people.

"As a further proof that the site of the Homeric Ilium was on the heights of Bunarbashi, M. Nikolaïdes says that the Trojans placed a scout on the tumulus of Æsyetes, to watch when the Achæans would march forth from their ships, and he thinks that, on account of the short distance from the Hellespont, this watching would have been superfluous and unreasonable if, as I say, Troy had stood on the site of Ilium, which M. Nikolaïdes calls



"In like manner, the assertion of M. Nikolaïdes, that there is no spring whatever near Hissarlik, is utterly wrong. It would be unfortunate for me if this were true, for I have constantly to provide my 130 workmen with fresh water to drink; but, thank God, close to my excavations, immediately below the ruins of the town-wall, there are two beautiful springs, one of which is even a double one. M. Nikolaïdes is also wrong in his assertion that the Scamander does not flow, and never has flowed, between Hissarlik and the Hellespont; for, as already stated, the Scamander must at one time have occupied the large and splendid bed of the Kalifatli-Asmak, which runs into the Hellespont near Cape Rhœteum, and which is not given in the map of M. Nikolaïdes.

"Lastly, he is completely wrong in his statement that the hill of Hissarlik, where I am digging, lies at the extreme north-eastern end of the Plain of Troy; for, as everyone may see by a glance at the map, the Plain extends still further to the north-east an hour and a half in length and half an hour in breadth, and only ends at the foot of the heights of Renkoï and the ancient city of Ophrynium.

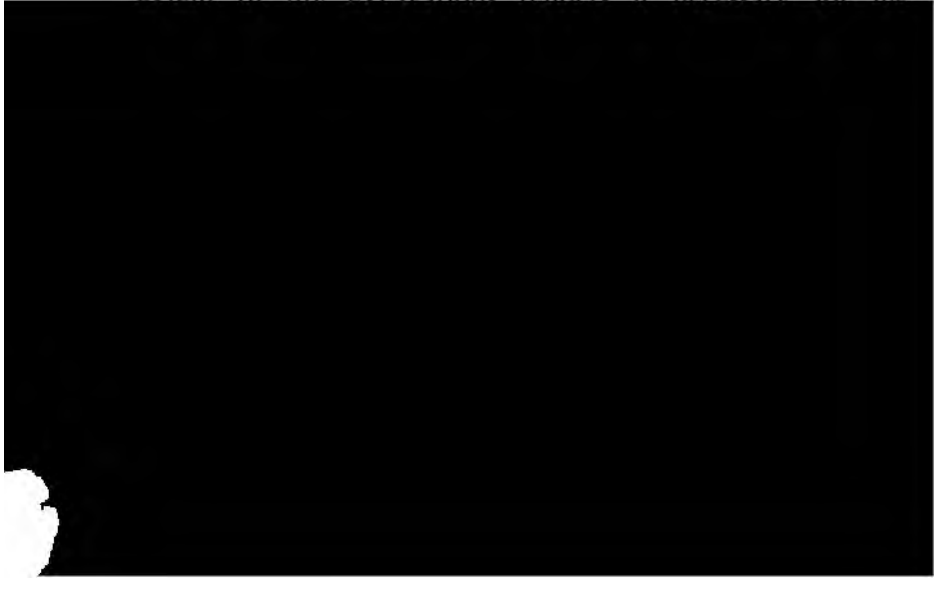
"It will be easily understood that, being engaged with my superhuman works, I have not a moment to spare, and therefore I cannot waste my precious time with idle talk. I beg M. Nikolaïdes to come to Troy, and to convince himself with his own eyes that, in refuting his erroneous statements, I have described all I see here before me with the most perfect truth."

CHAPTER XI.

Increase of men and machinery and cost on the works: but slow progress — Continued hurricane on "the windy Ilium" (Ἴλιος ἠνεμόεσσα) — The great platform proves too high — New cutting — Excavation of the temple — Objects found — Greek statuettes in terra-cotta — Many whorls with 卐 and suns — Wheel-shaped whorls with simple patterns in the lowest strata — Terra-cotta balls with suns and stars — Use of the whorls as amulets or coins discussed — Little bowls, probably lamps — Other articles of pottery — Funnels — A terra-cotta bell — Various beautiful terra-cottas — Attempts at forgery by the workmen — Mode of naming the men — The springs in front of Ilium — Question of Homer's hot and cold spring — Course of the Simoïs — The tomb of Batiea or Myrina identified with the Pacha Tépé — Theatre of Lysimachus — Heat and wind — Plague of insects and scorpions — Konstantinos Kolobos, a native genius without feet.

On the Hill of Hissarlik, July 13th, 1872.

My last report was dated the 18th of June. As the great extent of my excavations renders it necessary for me



are drawn by two men and pushed by a third. The same gentleman also sent me 20 wheel-barrows, so that I now work with 10 man-carts and 88 wheel-barrows. In addition to these I keep six more carts with horses, each of which costs 5 francs a day, so that the total cost of my excavations amounts to more than 400 francs (16*l.*) a day. Besides battering-rams, chains, and windlasses, my implements consist of 24 large iron levers, 108 spades, and 103 pickaxes, all of the best English manufacture. From sunrise to sunset all are busily at work, for I have three capital foremen, and my wife and I are always present at the works. But for all this I do not think that I now remove more than 400 cubic yards of *débris* in a day, for the distance is always increasing, and in several places it is already more than 262 feet. Besides this, the continual hurricane from the north, which drives the dust into our eyes and blinds us, is exceedingly disturbing. This perpetual high wind is perhaps explained by the fact that the Sea of Marmora, with the Black Sea behind it, is connected with the Ægean Sea by a strait comparatively so narrow. Now, as such perpetual high winds are unknown in any other part of the world, Homer must have lived in the Plain of Troy, otherwise he would not have so often given to his Ἴλιος the appropriate epithet of "ἠνεμόεσσα" (the "windy" or "stormy"), which he gives to no other place.

As I have already said, at a perpendicular depth of 12 meters (39½ feet) below the summit of the hill (on the site of what is probably the temple built by Lysimachus) I have dug a platform, 102 feet broad below and 112 feet wide at the top: it already extends to a length of 82 feet. But to my great alarm I find that I have made it at least 5 meters (16½ feet) too high; for, in spite of the great depth and the great distance from the declivity of the hill, I am here still in the *débris* of the Greek colony, whereas on the northern declivity of the hill I generally reached the

ruins of the preceding people at a depth of less than 6½ feet. To make the whole platform 16½ feet lower would be a gigantic piece of work, for which I have no patience at present, on account of the advanced season of the year. But in order as soon as possible to find out what lies hidden in the depths of this temple, I have contented myself with making a cutting 26 feet broad above and 13 feet wide below, exactly 16¼ feet below the platform and in the centre of it. This cutting I am having dug out at the same time from below and on two terraces, so it advances rapidly.

Since the discovery of the Sun-god with the four horses, many blocks of marble with representations of suns and flowers have been found, but no sculptures of any importance. As yet very few other objects have been brought to light from the excavation of the temple; only a few round terra-cottas with the usual decoration of the central sun surrounded by three, four, or five triple or quadruple rising suns; knives of silex in the form of saws, a few pretty figures in terra-cotta, among which is a priestess with very expressive Assyrian features, with a dress of a brilliant red and green colour, and a red cloth round her head; also a small bowl, the lower end of which represents

with three, four, or five 卐 round the central sun.* One, from a depth of 23 feet,† shows the central sun surrounded by six suns, through each of which a 卐 passes; upon another, found at a depth of 33 feet, the central sun has 12 trees instead of rays;‡ upon a third, brought from a depth of 16½ feet, the sun has seven rays in the form of fishing-hooks, one in the form of the figure three and two in the shape of the Phœnician letter Nun, then follow 12 sheaves of rays, in each of which are four little stars; upon a fourth terra-cotta, which I found at a depth of 16½ feet, there are four rising suns and a tree in the circle round the sun.§ I very frequently find between the rising suns three or four rows of three dots running towards the central sun,‖ which, as already said, according to É. Burnouf, denote "royal majesty" in the Persian cuneiform inscriptions. It is certain that this symbol is here also intended to glorify the Sun-god. At a depth of from 7 to 10 meters (23 to 33 feet) we also find round terra-cottas, upon which the entire surface round the sun is filled with little stars, and in addition only one 卐.

During the last few days we have also found, in the strata next above the primary soil, at a depth of from 46 to 36 feet, a number of round brilliant black terra-cottas of exquisite workmanship; most of them much flatter than those occurring in the higher strata, and resembling a wheel; many are in the shape of large flat buttons.¶ But we also meet with some in the form of tops and volcanoes, which differ from those found in the higher strata only by the fineness of the terra-cotta and by their better workmanship. The decorations on these very ancient articles are, however, generally much simpler than

* See the Plates of Whorls, Nos. 350, 351, 352, 356, 357, 359, &c.

† Plate XXVI., No. 362. M. Burnouf calls these "the 6 bi-monthly sacrifices."

‡ Plate XXXIII., No. 402.

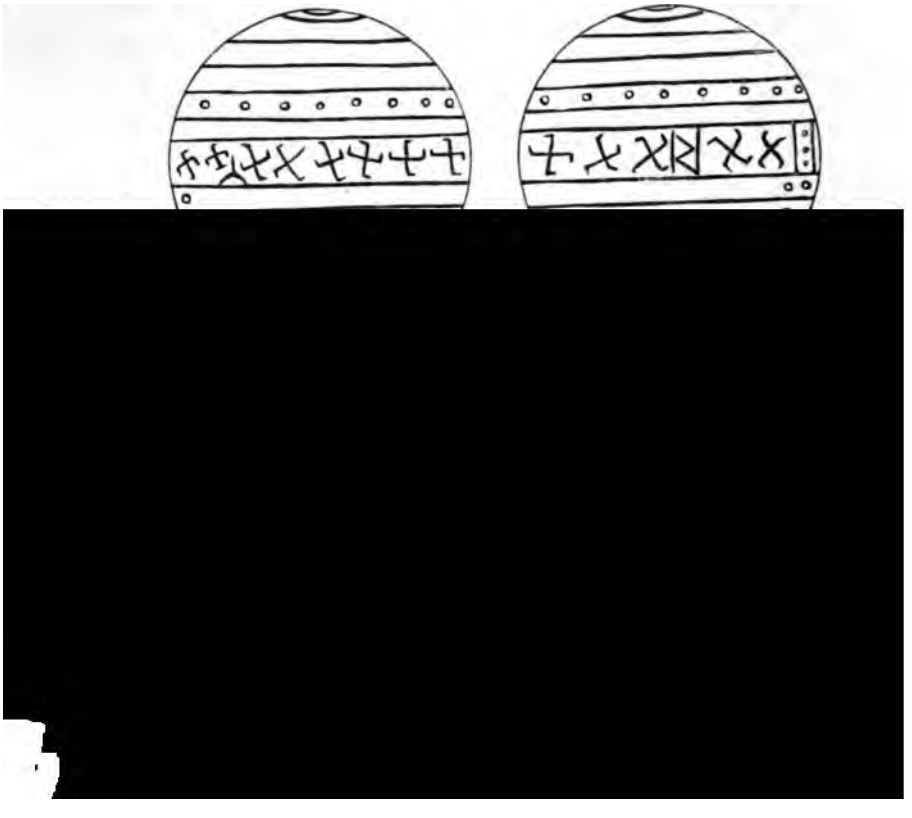
§ Plate XXXIV., No. 403.

‖ Plate XXII., No. 320.

¶ See the Sections on Plate XXI.

those met with above a depth of 10 meters (33 feet), and are mostly confined to the representation of the sun with its rays, or with stars between the latter, or of the sun in the centre of a simple cross, or in the middle of four or five double or treble rising suns. At a depth of 6 meters (20 feet) we again found a round terra-cotta in the form of a volcano, upon which are engraved three antelopes in the circle round the sun.

At a depth of from 5 to 8 meters (16½ to 26 feet) a number of terra-cotta balls were found, the surface of each being divided into eight fields; these contain a great many small suns and stars, either enclosed by circles or standing alone. Most of the balls, however, are without divisions and covered with stars; upon some I find the 卍 and the tree of life, which, as already said, upon a terra-cotta ball found at a depth of 26 feet, had stars between its branches.



which are found here from the surface down to a depth of from 14 and 16 meters (46 to 53 feet)—that is, from the end of the Greek colony down to the ruined strata of the first inhabitants, I have not yet found a single one with symbolical signs, upon which I could discover the slightest trace that it had been used for any domestic purpose.* On the other hand, among those which have no decorations I find a few, perhaps two in a hundred, of those in the form of volcanoes, the upper surfaces of which show distinct traces of rubbing, as if from having been used on the spinning-wheel or loom. That these articles, which are frequently covered with the finest and most artistic engravings, should have served as weights for fishing-nets, is utterly inconceivable, for, apart from all other reasons opposed to such a supposition, pieces of terra-cotta have not the requisite weight, and of course are directly spoilt by being used in water.

M. É. Burnouf writes to me, that these exceedingly remarkable objects were either worn by the Trojans and their successors as amulets, or must have been used as coins. Both of these suppositions, however, seem to me to be impossible. For amulets they are much too large and heavy, for they are from above 1 inch to nearly 2 inches, and some even $2\frac{1}{3}$ inches, in diameter, and from $\frac{3}{5}$ of an inch to nearly 2 inches high; moreover, it would be most uncomfortable to wear even a single one of these heavy pieces on the neck or breast. That they were used as coins appears to me inconceivable, on account of the religious symbols; moreover, if they had been so used, they would show traces of wear from their continual transfer. The white substance with which the engravings are filled seems also to contradict their having been used as coins; for in their constant passage from hand to hand it would have soon disappeared. Lastly,

* See the qualification of this statement on p. 40.

such an use is inconsistent with the fact that they also occur in the strata of the Greek colony, in which I find a number of copper and some silver coins of Ilium. However, the latter belong for the most part to the time of the Roman emperors, and I cannot say with certainty that they reach back beyond our Christian era. There are, however, coins of Sigeum, which probably belong to the second century before Christ, for in Strabo's time this town was already destroyed.

At a depth of 14 meters (46 feet) I find, among other curious objects, small round bowls only 1¾ inch in diameter; some of them have, on the edge of the bottom, four little feet with a perforated hole, and in the centre a

No. 144. Small Terra cotta Vessel from the lowest Stratum, with four perforated feet, and one foot in the middle (14 M.).*

fifth little foot without a hole. Other bowls of the same

inch broad, together with their small lids; their use is unknown to me. At all depths below 4 meters (13 feet) I find the small flat saucers of from nearly 2 inches to above 3 inches in diameter, with two holes opposite each other; from 4 to 7 meters (13 to 23 feet) they are coarse, but from 7 to 10 meters (23 to 33 feet) they are finer, and from 13 to 14 meters (42½ to 46 feet) they are very fine. I am completely ignorant as to what they can have been used for. At all these depths I also find funnels from 2¾ to above 3 inches long, the broad end of which is only a little above an inch in diameter. In the upper strata they are made of very coarse clay, but at an increasing depth they gradually become better, and at a depth

Nos. 145, 146. Two little Funnels of Terra-cotta, inscribed with Cyprian Letters (3 M.).

of 46 feet they are made of very good terra-cotta. It is extremely remarkable, however, that these curious and very "unpractical" funnels were kept in use in an entirely unchanged pattern by all the tribes which inhabited Ilium from the foundation of the city to before the Greek colony. I also find, in the second and third strata, terra-cottas in the form of the primitive canoes which were made of the hollowed trunk of a tree. From 4 to 7 meters (13 to 23 feet) they are coarse, and about 4 inches long; at a depth of from 7 to 10 meters (23 to 33 feet) they are finer, and from 1½ to 2¾ inches long. They may have been used as salt-cellars or pepper-boxes; I found several with flat lids.

These vessels cease to be found in the lowest stratum. Miniature vases and pots, between 1 and 2 inches high, are frequently found in all the strata from a depth of from 10 to 33 feet; at a depth of from 46 to 52½ feet only three miniature pots were discovered; one is not quite an inch high. At a depth of 5 meters (16½ feet) we found a perfectly closed earthen vessel with a handle, which seems to have been used as a bell, for there are pieces of metal inside of it which ring when it is shaken.

No. 147. A Trojan Humming-top (7 M.).

No. 148. Terra-cotta Bell, or Clapper, or Rattle (5 M., 7 in the Photograph.).

Of cups (vase-covers) with owls' heads and helmets, since my last report two have been brought out from a depth of 10 and 11 feet, two from 16 feet, and one from 26 feet. The first are made of bad terra-cotta and are inartistic; those from a depth of 16 feet are much better finished and of a better clay; while that from 26 feet (8 meters) is so beautiful, that one is inclined to

met with many beautiful terra-cottas from all the strata during the last few days.

I have still to describe one of those very pretty vases which occur abundantly at the depth of from 7 to 10 meters (23 to 33 feet), and have either two closed handles, or, in place of them, two handles with perforated holes, and also two holes in the mouth in the same direction; thus they could stand or be hung up by means of strings drawn through the four holes. They have in most cases decorations all round them, which generally consist, above and below, of three parallel lines drawn round them horizontally; between these there are 24 perpendicular lines, which likewise run parallel; the spaces formed by the latter are filled alternately with three or six little stars.* At a depth of from 7 to 10 meters (23 to 33 feet) we also meet, although seldom, with vases having cuneiform decorations. I must, however, remind the reader that all the decorations met with here, at a depth of from 33 feet up to 6½ feet, have always been more or less artistically engraved upon the terra-cottas when they were still soft and unburnt, that all of the vases have a uniform colour (though the ordinary pots are in most cases uncoloured), and that we have never found a trace of painting in these depths, with the exception of a curious box in the form of a band-box, found at a depth of 8 meters (26 feet), which has three feet as well as holes for hanging it up. It is adorned on all sides with red decorations on a yellow ground, and on its lid there is a large 卐 or a very similar symbol of the Maya, the fire-machine of our Aryan forefathers.

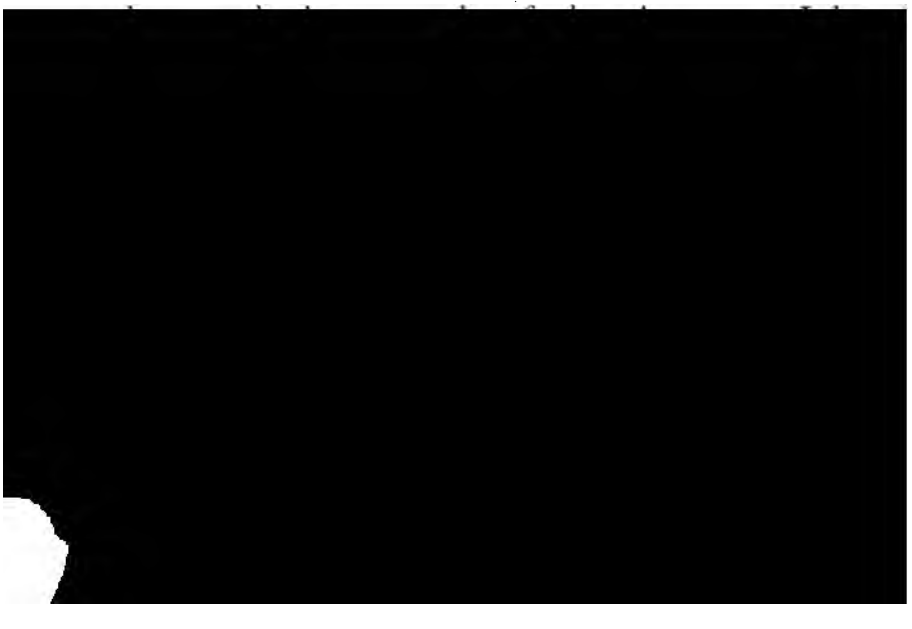
In the lowest stratum also, at the depth of 52½ feet, I found only the one fragment, already described, of a vase with an actual painting.† All of the other vessels found in these strata, even the round terra-cottas in the form of wheels, volcanoes, or tops, are of a brilliant

* See Cut, No. 149, p. 199. † See Cut, No. 1, p. 15.

black, red or brown colour, and the decorations are artistically engraved and filled with a white substance, so as to be more striking to the eye.

As every object belonging to the dark night of the pre-Hellenic times, and bearing traces of human skill in art, is to me a page of history, I am, above all things, obliged to take care that nothing escapes me. I therefore pay my workmen a reward of 10 paras (5 centimes, or a half-penny) for every object that is of the slightest value to me; for instance, for every round terra-cotta with religious symbols. And, incredible as it may seem, in spite of the enormous quantities of these articles that are discovered, my workmen have occasionally attempted to make decorations on the unornamented articles, in order to obtain the reward; the sun with its rays is the special object of their industry. I, of course, detect the forged symbols at once, and always punish the forger by deducting 2 piasters from his day's wages; but, owing to the constant change of workmen, forgery is still attempted from time to time.

As I cannot remember the names of the men engaged in my numerous works, I give each a name of my own invention according to their more or less pious, military or learned appearance: dervish, monk, pilgrim, corporal,



from my excavations; its water has a temperature of 16° Celsius (60·8° Fahrenheit). It is enclosed to a height of 6½ feet by a wall of large stones joined with cement, 9¼ feet in breadth, and in front of it there are two stone troughs for watering cattle. The second spring, which is likewise still below the ruins of the ancient town-wall, is exactly 725 meters (793 yards) distant from my excavations. It has a similar enclosure of large stones, 7 feet high and 5 feet broad, and has the same temperature. But it is out of repair, and the water no longer runs through the stone pipe in the enclosure, but along the ground before it reaches the pipe. The double spring spoken of in my last report is exactly 945 meters (1033 yards) from my excavations. It consists of two distinct springs, which run out through two stone pipes lying beside each other in the enclosure composed of large stones joined with earth, which rises to a height of 7 feet and is 23 feet broad; its temperature is 17° Celsius (62·6° Fahrenheit). In front of these two springs there are six stone troughs, which are placed in such a manner that the superfluous water always runs from the first trough through all the others. It is extremely probable that these are the two springs mentioned by Homer, beside which Hector was killed.* When the poet

* *Iliad*, XXII. 145–156 :–

Οἱ δὲ παρὰ σκοπιὴν καὶ ἐρινεὸν ἠνεμόεντα
Τείχεος αἰὲν ὑπὲκ κατ' ἀμαξιτὸν ἐσσεύοντο,
Κρουνὼ δ' Ἵκανον καλλιρρόω, ἔνθα τε πηγαὶ
Δοιαὶ ἀναΐσσουσι Σκαμάνδρου δινήεντος.
Ἡ μὲν γάρ θ' ὕδατι λιαρῷ ῥέει, ἀμφὶ δὲ καπνὸς
Γίγνεται ἐξ αὐτῆς ὡς εἰ πυρὸς αἰθομένοιο·
Ἡ δ' ἑτέρη θέρεῖ προρέει εἰκυῖα χαλάζῃ
Ἢ χιόνι ψυχρῇ ἢ ἐξ ὕδατος κρυστάλλῳ.
Ἔνθα δ' ἐπ' αὐτάων πλυνοὶ εὐρέες ἐγγὺς ἔασιν
Καλοὶ λαΐνεοι, ὅθι εἵματα σιγαλόεντα
Πλύνεσκον Τρώων ἅλοχοι καλαί τε θύγατρες
Τὸ πρὶν ἐπ' εἰρήνης, πρὶν ἐλθεῖν υἷας Ἀχαιῶν.

"They" (Hector and Achilles, in flight and pursuit)
"They by the watch-tower, and beneath the wall [Where

describes the one as boiling hot, the other as cold as ice. this is probably to be understood in a metaphorical sense; for the water of both these springs runs into the neighbouring Simoïs, and thence into the Kalifatli-Asmak, whose enormous bed was at one time occupied by the Scamander; the latter, however, as is well known, comes from Mount Ida from a hot and a cold spring.

I remarked in my last memoir that the Doumbrek-Su (Simoïs) still flows past the north of Ilium into the former channel of the Scamander, and I afterwards said that one of its arms flowed into the sea near Cape Rhœteum. This remark requires some explanation. The sources of the Simoïs lie at a distance of eight hours from Hissarlik; and, as far down as the neighbouring village of Chalil-Koï, though its water is drawn off into four different channels for turning mills, its great bed has always an abundance of water even during the hottest summer weather. At Chalil-Koï, however, it divides itself into two arms; one of which, after it has turned a mill, flows into the Plain in a north-westerly direction, forms an immense marsh, and parts into two branches, one of which again falls into the other arm, which flows in a westerly direction from Chalil-Koï, and then empties itself directly into the Kalifatli-Asmak,

north, and, under the name of In-tépé-Asmak, falls into the Hellespont through an enormously broad bed, which certainly was at one time occupied by the Kalifatli-Asmak, and in remote antiquity by the Scamander, and is close to the sepulchral mound of Ajax, which is called In-tépé. I must draw attention to the fact that the name of Ajax (Αἴας, gen. Αἴαντος) can even be recognised in the Turkish name (*In*-tépé: *Tépé* signifies "hill.")

In returning to the article by M. Nikolaïdes, I can now also refute his assertion that near Ilium, where I am digging, there is no hill which can be regarded as the one described by Homer as the tomb of Batiea or the Amazon Myrina.*

Strabo (XIII. i. p. 109) quotes the lines already cited from the Iliad† (II. 790–794) as an argument against the identity of Ilium with the Ilium of Priam, and adds: "If Troy had stood on the site of the Ilium of that day, Polites would have been better able to watch the movements of the Greeks in the ships from the summit of the Pergamus than from the tumulus of Æsyetes, which lies on the road to Alexandria Troas, 5 stadia (half a geographical mile) from Ilium."

Strabo is perfectly right in saying that the Greek camp must have been more readily seen from the summit of the Pergamus than from a sepulchral mound on the road to Alexandria Troas, 5 stadia from Ilium; for Alexandria Troas lies to the south-west of Ilium, and the road to it, which is distinctly marked by the ford of the Scamander at its entrance into the valley, goes direct south as far as Bunarbashi, whereas the Hellespont and the Greek camp were north of Ilium. But to the south of Ilium, exactly in the direction where the road to Alexandria Troas must have been, I see before me a tumulus 33 feet high and 131 yards in circumference, and, according to an exact measurement

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* See *Iliad*, II. 811–815, quoted above, p. 179.

† Chapter II., p. 69.

which I have made, 1017 yards from the southern city wall. This, therefore, must necessarily be the sepulchral mound of which Strabo writes; but he has evidently been deceived in regard to its identity with the tumulus of Æsyetes by Demetrius of Scepsis, who wished to prove the situation of this mound to be in a straight line between the Greek camp and the village of the Ilians (Ἰλιέων κώμη), and the latter to be the site of Troy. The tumulus of Æsyetes was probably situated in the present village of Kum-Koï, not far from the confluence of the Scamander and the Simoïs, for the remains of an heroic tumulus several feet in height are still to be seen there.

The mound now before me is in front of Troy, but somewhat to the side of the Plain, and this position corresponds perfectly with the statements which Homer gives us of the position of the monument of Batiea or the Amazon Myrina: "προπάροιθε πόλιος" and "ἐν πεδίῳ ἀπάνευθε." This tumulus is now called Pacha-Tépé.

We may form an idea of what a large population Ilium possessed at the time of Lysimachus, among other signs, from the enormous dimensions of the theatre which he built; it is beside the Pergamus where I am digging, and its stage is 197 feet in breadth.

who, although born without feet, has nevertheless made a considerable fortune in a retail business. But his talents are not confined to business; they include a knowledge of languages; and although Kolobos has grown up among the rough and ignorant village lads and has never had a master, yet by self-tuition he has succeeded in acquiring the Italian and French languages, and writes and speaks both of them perfectly. He is also wonderfully expert in ancient Greek, from having several times copied and learnt by heart a large etymological dictionary, as well as from having read all the classic authors, and he can repeat whole rhapsodies from the Iliad by heart. What a pity it is that such a genius has to spend his days in a wretched village in the Troad, useless to the world, and in the constant company of the most uneducated and ignorant people, all of whom gaze at him in admiration, but none of whom understand him!

No. 149. A Trojan decorated Vase of Terra-cotta (7 M.).

CHAPTER XII.

Discovery of an ancient wall on the northern slope — Discovery of a Tower on the south side — Its position and construction — It is Homer's *Great Tower of Ilium* — Manner of building with stones and earth — A Greek inscription — Remarkable medal of the age of Commodus — Whorls found just below the surface — Terra-cottas found at small depths — Various objects found at the various depths — A skeleton, with ornaments of gold, which have been exposed to a great heat — Paucity of human remains, as the Trojans burnt their dead — No trace of pillars — Naming of the site as "Ilium" and the "Pergamus of Troy."

Pergamus of Troy, August 4th, 1872.

REFERRING to my report of the 13th of last month, I am glad now to be able to mention that, in excavating the depths of the temple, I found a wall 10 feet high and 6½ feet thick, which, however, has at one time been much higher, as the quantity of stones lying beside it seem to prove. It is at a distance of 121 feet from the declivity of

Page 200.

THE GREAT TOWER OF ILIUM.
Seen from the S.E.

The top is 8 M. (26 ft.) below the surface of the Hill: the foundation is on the rock 14 M. (46 ft.) deep: the height of the Tower is 20 feet.

appear strange that it is only 6½ feet thick, and was never higher than 16½ feet, for it must be remembered that the hill has a steep incline on the north side, and that it is very precipitous at this part especially.

Below the wall I found five of those splendid, brilliant black flat Trojan terra-cottas, which are so like a wheel, that they can be distinguished at a glance from all the others. One has six suns in the circle round the central sun; another has four stars forming a cross round the sun; a third has three double rising suns in the circle round the central sun; a fourth has four rising suns with five lines, forming a cross round the sun; a fifth has three triple rising suns round the sun. I also found below the wall a number of fragments of black Trojan vessels which are directly recognised by their fineness, and by the long single or double rings on the sides.

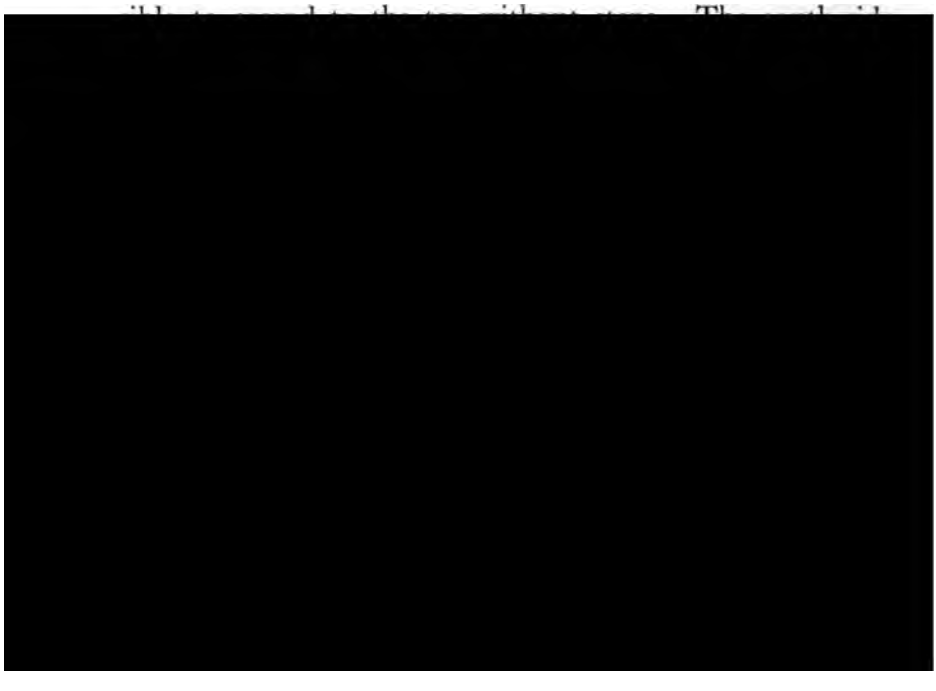
The wall proceeds from west to east, and consequently obstructs my path, and I cannot remove the *débris* from behind it without considerably widening my trench, which would be a gigantic piece of work between the enormous earthen walls. In continuing my trench in a horizontal direction I have arrived at exactly 6½ feet below this wall. It is very interesting from a perpendicular depth of 15½ meters, or 51⅓ feet, to see this mass of primeval Trojan masonry in a depth of 13½ to 10½ meters (44¼ to 34 feet), and the wall beside it which was built by Lysimachus, and is almost immediately below the surface, standing as it were in mid air.

On the south side of the hill where, on account of the slight natural slope, I had to make my great trench with an inclination of 14 degrees, I discovered, at a distance of 197 feet from the declivity, a Tower, 12 meters or 40 feet thick, which likewise obstructs my path, and appears to extend to a great length.* I am busily engaged in making

* The Tower is marked No. 4, and is also named, on Plan II.

large excavations to the right and left of it, in order to lay bare the whole; for, independently of the mighty interest attached to this Tower, I must necessarily dig a channel to allow the waters of the winter rains to run off, as they would otherwise rush violently down from my platform (197 feet in length, and with a considerable slope) against the Tower and injure it. I have uncovered the Tower on the north and south sides along the whole breadth of my trench, and have convinced myself that it is built on the rock at a depth of 14 meters or 46½ feet.

An elevated mass of calcareous earth, 65½ feet broad and 16½ feet high, rests upon the north side of the Tower, and is evidently composed of the rubbish which had to be removed in order to level the rock for building the Tower upon it. I have of course pierced this hillock, and have convinced myself that the north side of the Tower, 16½ feet above the rock, does not consist of masonry, but of large blocks of stone lying loosely one upon another, and that only the upper part, about a yard high, consists of actual masonry. This hillock, having the form of a rampart, thus serves to consolidate the north side of the Tower, and renders it pos-



but the nature of its surface, and the masses of stones lying on both sides, seem to prove that it was at one time much higher.* For the preservation of what remains we have only to thank the ruins of Troy, which entirely covered the Tower as it now stands. It is probable that after the destruction of Troy much more of it remained standing, and that the part which rose above the ruins of the town was destroyed by the successors of the Trojans, who possessed neither walls nor fortifications. The western part of the Tower, so far as it is yet uncovered, is only from 121 to 124 feet distant from the steep western slope of the hill; and, considering the enormous accumulation of *débris*, I believe that the Tower once stood on the western edge of the Acropolis, where its situation would be most interesting and imposing; for its top would have commanded, not only a view of the whole Plain of Troy, but of the sea with the islands of Tenedos, Imbros, and Samothrace. There is not a more sublime situation in the area of Troy than this, and I therefore presume that it is the "Great Tower of Ilium" which Andromache ascended because "she had heard that the Trojans were hard pressed and that the power of the Achæans was great."† After having been buried for thirty-one centuries, and after successive nations have built their houses and palaces high above its summit during thousands of years, this Tower has now again been brought to light, and commands a view, if not of the whole Plain, at least of the northern part and of the Hellespont. May this sacred and sublime monument of Greek heroism for ever

* This opinion was changed afterwards. See Chapter XXII., p. 318. —[ED.]

† *Iliad*, VI. 386, 387:—

> Ἀλλ' ἐπὶ πύργον ἔβη μέγαν Ἰλίου, οὔνεκ' ἄκουσεν
> Τείρεσθαι Τρῶας, μέγα δὲ κράτος εἶναι Ἀχαιῶν.

> "But to the height of Ilion's topmost tower
> Andromache is gone; since tidings came
> The Trojan force was overmatched, and great
> The Grecian strength."

attract the eyes of those who sail through the Hellespont! May it become a place to which the enquiring youth of all future generations shall make pilgrimage and fan their enthusiasm for knowledge, and above all for the noble language and literature of Greece! May it be an inducement speedily and completely to lay bare the walls of Troy, which must necessarily be connected with this Tower and most probably also with the wall laid open by me on the north side, to uncover which is now a very easy matter.

The expenses of excavating Ilium are, however, too great for private means, and I hope that a company will be formed, or that some government will decide to continue my excavations, so that I may proceed to the excavation of the acropolis of Mycenæ. Meanwhile I shall continue the excavations at my own expense, but I shall in future confine myself to gradually uncovering the large surrounding walls, which are sure to be in a more or less good state of preservation at a great depth below the city wall built by Lysimachus.

Before I had seen even the smallest ruins of walls belonging to Ilium, I repeatedly maintained in my reports that the whole city was built, as it is now proved by the Wall and the Tower to have been, of stones joined with

ΗΒΟΥΛΗΚΑΙΟΔΗΜΟ
ΙΛΙΕΩΝΕΤΙΜΗΣΑΝΑΥ
ΚΛΑΥΔΙΟΝΚΑΙΚΙΝΑΙ
ΑΙΟΝΚΥΖΙΚΗΝΟΝΑ
ΤΑΛΟΓΙΣΤΗΝΥΠΟΤΟ
ΟΤΑΤΟΥΑΥΤΟΚΡΑΤΟΡΟ
ΣΑΡΟΣΤΙΤΟΥΑΙΛΙΟΥΑΔ
ΝΟΥΑΝΤΩΝΙΟΥΣΕΒΑ
ΕΥΣΕΒΟΥΣΚ..ΙΠΟΛΛ
ΜΕΓΑΛΑΤΗΙΠ..ΛΕΙΚΑΤΟ
ΣΑΝΤΑΚΑΙΓ..ΡΑΣΧΟΝΤ
ΤΕΤΗΛΟΓΙΣΤ..ΙΑΚΑΙΣΥ
ΓΟΡΙΑΙΣΑΝΔ...ΠΑΣΗΣΤ
ΑΞΙΟΝΑΡΕΤΗ..ΕΝΕΚΕΝΚ
ΕΥΝΟΙΑΣΤΗΣΠΡΟΣΤΗ
ΠΟΛΙΝ

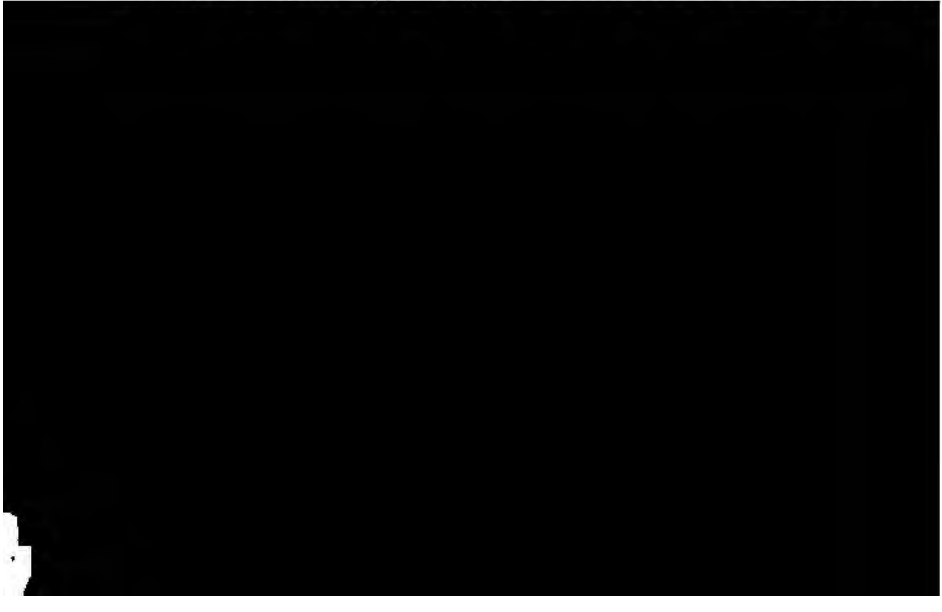
The first name occurring in this inscription, of which the syllable **ΑΥ** is preserved, is probably **ΑΥΛΟΣ. ΚΑΙΚΙΝΑΙ**, must certainly be the family-name, and must indicate the Latin ablative. Whether the other name, of which **ΑΙΟΝ** remains, is intended for **ΓΑΙΟΝ**, I do not venture positively to maintain, but I consider it to be probable. For the inscription, which I read as follows, is written in bad Greek, especially towards the end: *Ἡ βουλὴ καὶ ὁ δῆμος Ἰλιέων ἐτίμησαν* Αὖλον Κλαύδιον Καικινᾶ Γάϊον Κυζικηνὸν *ἄρχοντα λογιστὴν ὑπὸ τοῦ θειοτάτου αὐτοκράτορος* Καίσαρος Τίτου Αἰλίου Ἀδριανοῦ Ἀντωνίου *Σεβαστοῦ Εὐσεβοὺς καὶ πολλὰ καὶ μεγάλα τῇ πόλει κατορθώσαντα καὶ παράσχοντά τε τῇ λογιστείᾳ καὶ συνηγορίαις ἄνδρα πάσης τιμῆς ἄξιον ἀρετῆς ἕνεκεν καὶ εὐνοίας τῆς πρὸς τὴν πόλιν.*

The Emperor mentioned in this inscription is of course Antoninus Pius, whose reign began in the year 138 A.D., and who died in 161 A.D.; it is merely by an error that he is here called Antonius. He got the name of Hadrian from his adoptive father, the Emperor Hadrian, and took

the name of Ælius after the death of Hadrian's first adopted son, Ælius Cæsar.

Upon the upper end of the block of marble there are two foot-marks, the one considerably in advance of the other. Each of them being 15⅓ inches long, they leave no doubt that upon this block the colossal statue of the Cyzicene, who is praised in the inscription, stood in the attitude of an orator. In the hinder foot there is a square hole, 1⅘ inch square, in which was placed the iron rod for fixing the statue. To judge from the size of the foot-marks, the statue must have been more than 8 feet high, and, as the marble block is 5¼ feet in height, the whole must have been at least 13¼ feet high, and hence we may conclude that the temple in which this work of art stood was very spacious.

The excavations to the right and left of the Tower have unfortunately to be made from above, which makes the work slower, but gives me the advantage of being able again to state with great accuracy at what depths the various objects are found. Generally the ruins of the Greek period extend to a depth of 2 meters (6½ feet), but there are places where the remains of the pre-Hellenic period commence at less than 1 meter (3¼ feet), and this is the case on the east



therefore comes from the very small island of Elæusa, on the coast of Cilicia, and it proves the remarkable fact that this small island, which now scarcely possesses any inhabitants, was anciently so populous that it struck its own coins.

The frequently discussed whorls of terra-cotta, bearing simple or double crosses with the marks of four nails, or having three, four, or five double rising suns in the circle round the central sun, are met with to the east of the Tower quite close below the surface, that is, at a depth of not quite a foot. At a depth of 1 meter (3¼ feet) I found a small whorl, upon which the *Rosa mystica*, with its four petals, forms a cross round the sun. At as small a depth as 2 meters (6½ feet) I discovered a small and coarsely made cup, with the owl's face of the Ilian tutelary goddess, also very clumsy goblets in the form of champagne-glasses with two handles; at a depth of 3 meters (10 feet) small saucers with three little feet, which are adorned with 卐 and trees of life. I also found at the same depth small terra-cotta volcanoes and tops with the 卐, and a great number of them at a depth of 4 meters (13 feet). At the latter depth I found, when excavating the west side of the Tower, an extremely curious cup, nearly 8 inches high, in the form of a Mecklenburg roll (*Plutensemmel*), with four divisions, but round and furnished with two enormous handles; it has a rounded foot, so that it can only stand on its mouth. In the same place I found a curious vase, with little rings on the sides for suspension by strings, and a little spout in the bulge, so that the fluid poured into the vase would run out again directly. Vases with such tubes in the bulge, but without rings at the sides, are very frequently met with. Further, at a depth of 4 meters (13 feet) I found goblets in the form of champagne-glasses, with two large handles; also a curious little terra-cotta volcano with four 卐, the symbol of lightning, and two sacrificial altars covered with flames. At a depth of 5 meters (16½ feet)

I found several such pieces with extremely interesting symbolical signs; one of them had a very fine engraving of the flaming altar and the tree of life. In the same stratum I found a neat little vase with three feet, two handles, and prettily engraved decorations; lastly, a number of small knives made of silex, in the form of saws. At a depth of 6 meters (20 feet) we found a vessel, a little more than 9 inches long, which is exactly in the shape of an animal; it has three feet, a tail, and an upright neck, which is connected with the back by a large handle. At a depth of 7 meters (23 feet) I found a very pretty vase, with the owl's head of the tutelary goddess of Troy, her two female breasts and navel; the two arms are raised by the side of the head, and served as handles. From the same depth we brought out a curious saw made of bone; from a depth of 8 meters (26 feet), idols with the image of the Ilian Athena, with her girdle, made of very fine marble; at the same depth some of those earthen funnels which I have already frequently mentioned, also several terra-cotta balls covered with engravings of little stars. I also discovered during the last few days, at depths of from 8 to 11 meters (26 to 36 feet) a number of large vases and vessels of various forms, with two, three, and four handles, and, besides these, at 10 meters (33 feet) deep, a vessel in the form of an animal, with three feet and a tail; a horn, which projects from the upright neck and serves as a handle, connects the head with the end of the back. This vessel is not unlike a locomotive engine.

No. 150. Terra-cotta Vase (7 M.).

No. 151. Terra-cotta Vase in the form of an Animal, from the Trojan Stratum (10 M.).

The day before yesterday, at the depth of 14 meters (46 feet), we met with a great number of interesting things; for instance, the neck of a brilliant red vase with the owl's head, which has two enormously large eyes; then a brilliant brown vessel, $8\frac{2}{3}$ inches long, 7 inches high, and nearly

No. 152. Terra-cotta Vessel in the shape of a Pig, from the Lowest Stratum (14 M.).

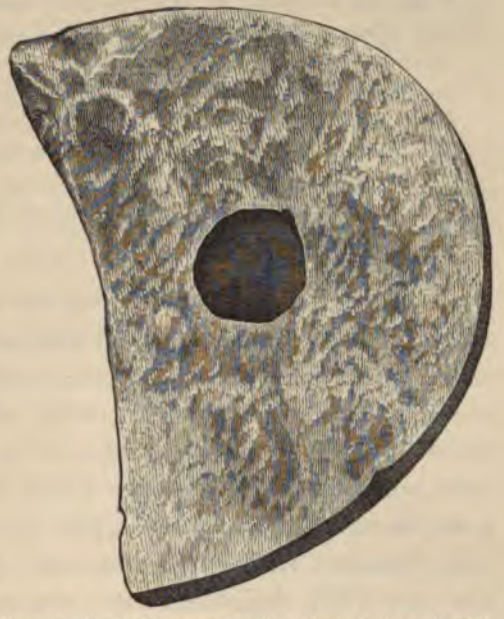
6 inches thick, in the form of a sow, with a projecting but closed head of excellent workmanship, and with three feet; the orifice of the vessel is in the tail, which is connected with the back by a handle. Further, a lance and several instruments, as well as a number of copper nails, and needles of ivory for embroidering. In the ashes of the same house, which has evidently been burnt, I also found, at a depth of 13 meters ($42\frac{1}{2}$ feet), a tolerably well preserved skeleton of a woman, of which I think I have collected nearly all the bones; the skull especially is in a good state of preservation, but has unfortunately been broken in our excavations; however, I can easily put it together again; the mouth is somewhat protruding, and shows good but astonishingly small teeth. By the side of the skeleton I found a finger-ring,

No. 153.
Skull of a Woman, found near some gold ornaments in the Lowest Stratum (13 M.).

three ear-rings, and a dress-pin of pure gold. The latter is perfectly simple, and has a round head; two of the ear-rings are of quite a primitive kind, and consist of simple gold wire 0·058 of an inch thick; as does also the third ear-ring, which, however, is much more finely wrought and ends in a leaf, which is formed of six gold wires of equal thickness, riveted together.* The finger-ring is made of three gold wires 0·115 of an inch thick. All of these objects bear evidence of having been exposed to great heat. The Trojan woman must, however, have also worn other ornaments, for by the side of the skeleton I collected several gold beads only 0·039 of an inch large, and also a very thin oval ring only a quarter of an inch in length. Even the colour of the bones leaves no doubt that the lady was overtaken by fire and burnt alive. With the exception of the skeleton of the embryo of six months which was found in a vase upon the primary soil, this is the only human skeleton I have ever met with in any of the pre-Hellenic strata on this hill.† As we know from Homer, all corpses were burnt, and the ashes were placed in urns, of which I have found great numbers in the ruins of all the nations which inhabited this hill before the time of the Greek colony. The bones, however, were always burnt to ashes; at most I

he nave it has five rising suns. As usual, these decorations re engraved and filled with a white substance.

Of pillars I have as yet found no trace in Troy; hence f there existed real pillars, they must in all cases have been f wood. Moreover, the word "*κίων*" is never met with in he Iliad, and only in the Odyssey. In a house at a depth f 39¼ feet, I found a prettily carved and very hard piece f limestone in the form of a crescent, with a round hole ½ inch deep, and conjecture that it nay have been used s the support for door.



No. 154. Block of Limestone, with a socket, in which the pivot of a door may have turned (12 M.).

In conclusion, flatter myself with he hope that, as reward for my normous expenses nd all my priva- ions, annoyances, nd sufferings in his wilderness, but bove all for my nportant disco- eries, the civilized orld will acknow- dge my right to e-christen this sacred locality; and in the name of the ivine Homer I baptize it with that name of immortal enown, which fills the heart of everyone with joy and nthusiasm: I give it the name of "TROY" and "ILIUM," nd I call the Acropolis, where I am writing these lines, by he name of the "*Pergamus of Troy.*"*

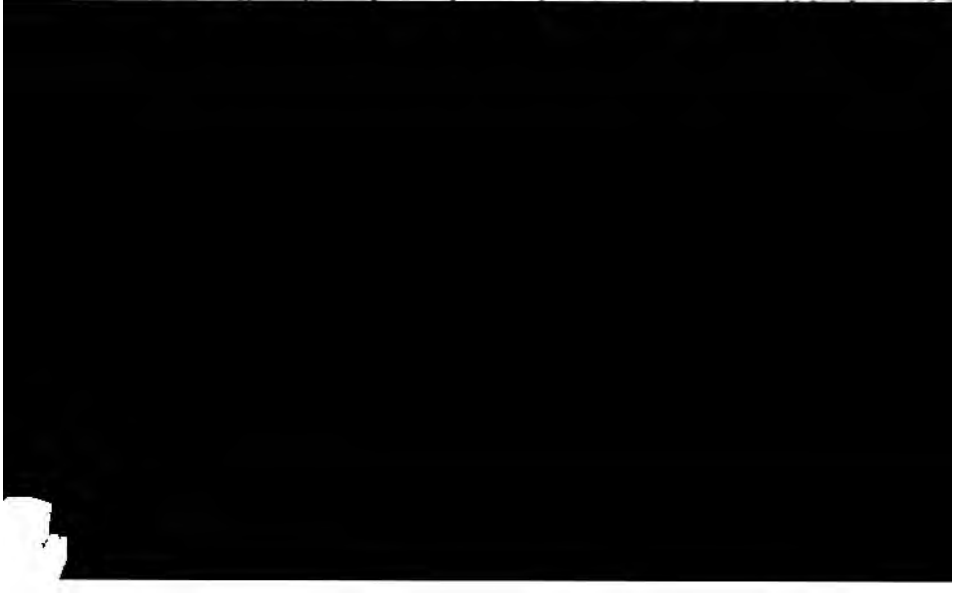
* This last name was afterwards recalled by Dr. Schliemann, and that f "Ilium" or "Troy" confined to the Hill of Hissarlik. See Chapter XIII., p. 343; and Introduction, p. 18.

CHAPTER XIII.

Intended cessation of the work — Further excavation of the Tower— Layers of red ashes and calcined stones — Objects found on the Tower — Weapons, implements, and ornaments of stone, copper, and silver — Bones — Pottery and vases of remarkable forms— Objects found on each side of the Tower — First rain for four months — Thanks for escape from the constant dangers — Results of the excavations — The site of Homer's Troy identified with that of Greek Ilium — Error of the Bunarbashi theory — Area of the Greek city — Depth of the accumulated *débris* unexampled in the world — Multitude of interesting objects brought to light — Care in making drawings of them all.

Pergamus of Troy, August 14th, 1872.

SINCE my report of the 4th of this month I have continued the excavations with the utmost energy, but I am now compelled to stop the works this evening, for my three foremen and my servant, who is also my cashier, have been seized by the malignant marsh-fever, and my wife and I are so unwell that we are quite unable to undertake the



however, as far as I can at present judge, four broad steps have been preserved.* On the western side it is only 9 meters or 30 feet in breadth, and on this side there extends to the north an enormous wall, the thickness of which I have not been able to ascertain. The fact of my not having been able to carry these new excavations down to the primary soil, but only to a depth of 11 meters (36½ feet) is owing to the brittle nature of the walls of rubbish and ruins round about the Tower, which, as any-one may convince himself, consist of red ashes and of stones calcined by the heat, and which threatened at any moment to fall in and bury my workmen.

Upon the Tower, and more especially in the long oval depression on the top of it, and upon the steps I found two copper Trojan lances, several arrow-heads in the primitive form of thick pegs, from above 1 inch to nearly 2 inches long, which were fastened at the end of the shaft; further, an arrow-head 2½ inches in length, made of silex, and in the form of a pointed double-edged saw; then several copper and silver nails with round heads, which may have served as clothes-pins; further, great quantities of bones, masses of fragments of Trojan pottery of a brilliant red and black, and a number of vases and pots more or less well preserved. Among them is a pretty brilliant red vase nearly 10 inches high, filled with the bones of a sea-fish. This vase (found in an urn, which was unfortunately broken to pieces) has two small handles, and on two sides an ornament in the form of the Greek letter *Lambda*, but with circular ends.† Three other vases

* Respecting these steps, which are marked No. 6, on Plan II., and *c* on Plan III., p. 306, see further in Chapter XXII., p. 318, where the idea of an upper storey is rejected.—[ED.]

† The cut represents a vase of this type, with the upper part joined on by Dr. Schliemann, who remarks that it is doubtful whether the owl's face belongs to this vase, as the Ilian goddess is in no other case represented on vases without the breasts and abdomen. (Description in the Atlas of Photographs.)

of a similar form, and with exactly the same decorations, were found upon the Tower. Two other vases of the same form, and with very similar decorations, were found at depths of 26 and 20 feet. I also found upon the Tower an exceedingly curious vessel nearly 6 inches in length, exactly the shape of a mole, and with three feet; it can also be placed

No. 155. A Trojan Terra-cotta Vase, with an Ornament like the Greek *Lambda* (8 M.).

No. 156. Curious Terra-cotta Vessel in the shape of a Mole (Tower: 7 or 8 M.).

so that the snout of the animal is lowest and serves as a foot; the orifice is in the tail, which a large handle connects with the back. I also found there a splendid Trojan vase, of a brilliant black colour, 15¾ inches high, which was unfortunately completely broken, but I have all the pieces of it, and consequently shall be able to restore it. Besides these, a Trojan pot, and a globular vessel with the above-mentioned decoration of a rounded lambda. I likewise saved, in an almost perfect condition, an exceedingly interesting red jug, above 9 inches high, quite round below and with a neck more bent backwards than I have ever found it in such vessels. I further found there a Priapus and a very pretty bird's egg made of fine marble, many small terra-cotta whorls with the usual symbols of double and treble crosses, six suns, four or five double or treble rising suns, or stars, in the circle round

the central sun; also one article where four 卐 form a cross round the sun, and the rest of the space is filled with stars. Further, a few small vessels with suspension rings were found also on the Tower, as well as 25 very ordinary earthen plates, which have been turned by the potter, whereas all the other articles appear to have been made by the hand without a potter's wheel; about half of the plates were got out uninjured.

No. 157. A Trojan Dish with side Rings, and Plates turned by the Potter (Tower: 7 M.).

In digging to the left and right of the Tower, a number of other interesting objects have been found since my last report; for instance, at a depth of 2 meters (6½ feet), a number of very neat although ordinary vessels with small rings on the sides and holes in the mouth for hanging them up, which have hitherto only been met with much further down; at a depth of 3 meters (10 feet) a small cover, with the owl's face and helmet of the Ilian Athena, of very good manufacture; then, at a depth of 11½ feet, a small terra-cotta whorl with three stags in the circle round the sun. At a depth of from 5 to 6 meters (16½ to 20 feet), I found a great number of small knives of silex in the form of saws. At a depth of 10 meters (33 feet) I discovered a very curious instrument of brilliant

yellow terra-cotta, a drawing of which I give. It is quite inexplicable to me for what purpose it can have been used: it is almost in the shape of a shield, and by the side of the handle which is ornamented with a tree, it has a cavity for putting the hand in. As it is made of terra-cotta it cannot, of course, have been used as a shield.*

After having had no rain here for four months, to-day, curiously enough, just after stopping the works, we have had a thunderstorm accompanied by a tremendous downpour of rain, and I regret extremely not to have been able to make a channel for leading off the rain-water from the Tower as far as the western declivity of the hill. But such a channel would need to be 50 feet deep and as many broad, otherwise its walls, consisting of calcined ruins and loose red ashes, would fall in. I should therefore have to remove 5000 cubic meters (6000 cubic yards) of *débris*, and such a gigantic piece of work I cannot now undertake.

In stopping the excavations for this year, and in looking back upon the fearful dangers to which we have continually been exposed since the 1st of April, between the gigantic layers of ruins, I cannot but fervently thank God for His great mercy, that not only has no life been lost, but that

us by later authors; and, moreover, neither in the Plain of Troy, nor in its vicinity, is there any other place which could in the slightest degree be made to correspond with them. To regard the heights of Bunarbashi as the site of Troy, contradicts, in every respect, all the statements of Homer and of tradition. My excavations of Bunarbashi, as well as the form of the rocks, prove that those heights, as far as the three sepulchral mounds, can never have been inhabited by men. As I have already said, behind those tumuli there are the ruins of a very small town, the area of which, surrounded on two sides by the ruins of an enclosing wall, and on the other side by precipices, is so insignificant, that at most it can have only possessed 2000 inhabitants. The enclosing wall of its small Acropolis is scarcely a foot thick, and the gate scarcely 3¼ feet wide. The accumulation of *débris* is not worth mentioning, for in many places the naked flat rocks are seen on the ground of the Acropolis. Here in Ilium, however, the proportions are very different. The area of the Greek city, which is indicated by the surrounding wall built by Lysimachus, is large enough for a population of more than 100,000 souls; and that the number of the inhabitants was actually as large is proved by the stage of the theatre, which is 200 feet in breadth. Here the surrounding wall of Lysimachus is 6½ feet thick, whereas the wall which runs out from the Tower at a great depth below the other seems to be five times as thick, and Homer assuredly ascribed the erection of the walls of Troy to Poseidon and Apollo on account of their enormous proportions.* Then, as regards the accumulation of *débris*, here in the Pergamus there is no place where it amounts to less than 14 meters, or 46½ feet, and in many places it is even much more considerable. Thus, for instance, on my great platform, I only reached the primary soil at a depth

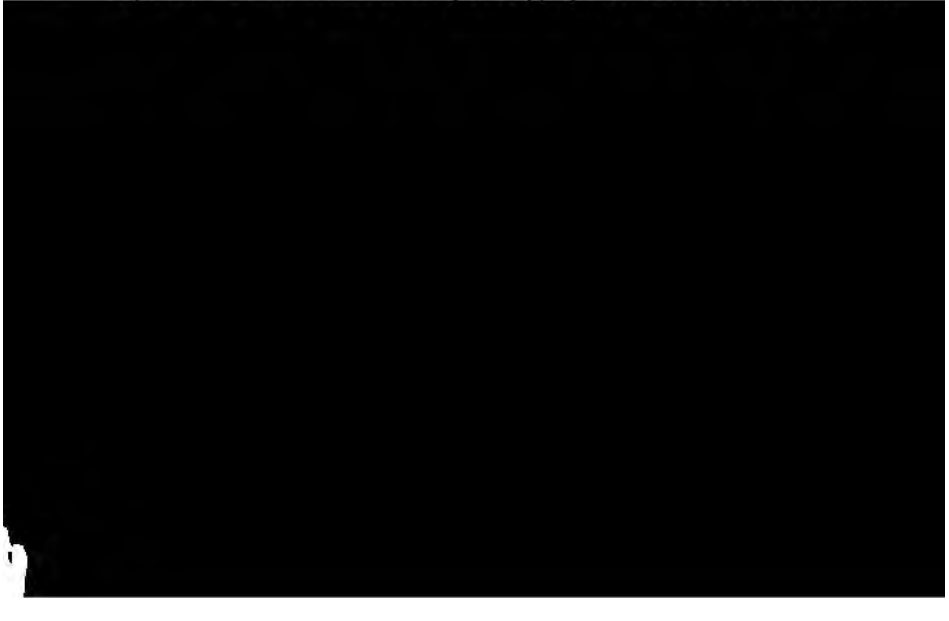
* According to Mr. Gladstone's theory, these masses of masonry, and the tradition ascribing them to Poseidon and Apollo, are signs of Phœnician influence. -[Ed.]

CHAPTER XIV.

Return to Troy to take plans and photographs — Damage to retaining walls — The unfaithfulness of the watchman — Stones carried off for a neighbouring church and houses — Injury by rain — Works for security during the winter — Opening up of a retaining wall on the side of the hill, probably built to support the temple of Athena — Supposed *débris* of that temple — Drain belonging to it — Doric style of the temple proved by the block of Triglyphs — Temple of Apollo also on the Pergamus.

Athens, September 28th, 1872.

I WROTE my last memoir on the 14th of last month, and on the 10th of this month, accompanied by my wife and Sisilas the land-surveyor, I returned to Troy in order to make a new plan of the Pergamus, which contains the most exact picture of my excavations, as well as of the depth in which the remains of immortal fame were discovered by me. I also took the photographer Siebrecht from the



the construction of a belfry in the Christian village of Yenishehr, and for building houses in the Turkish village of Chiplak. I, of course, packed him off directly, and engaged in his place a watchman whom I armed with a musket. He had the reputation of being honest, and his physical strength will inspire the pilferers of the stones with respect. What vexed me most was, that these thieves had even laid their hands upon the splendid bastion of the time of Lysimachus, which I had uncovered on the south side of the hill; they had made off with two large stones from it, and the bastion would assuredly have vanished entirely had I been away a week longer.

I also regret to see that the downpour of rain on the 14th of August has filled the great cutting, which I made on the south side of the Tower, in order to bring the Tower to light down as far as the rock upon which it is built, with *débris* to a height of 2 meters (6½ feet). So, immediately upon my arrival, I engaged 20 workmen, 10 of whom are busy in clearing the south side of the Tower as far as the primary soil, in wheeling away the *débris*, and in building in front of the cutting a wall of large blocks of stone, through which the rain-water can escape, but not the *débris* that may be washed down.

I have now had an opportunity of convincing myself that the rain does not harm the Tower, for it disappears directly to the right and left of it in the loose *débris*. Of the other ten workmen, six are occupied in repairing the walls which have been destroyed or injured by wanton hands, while the other four are working in order to lay bare as far as possible an exceedingly remarkable wall, which rises at an angle of 40 degrees at the depth of 15½ meters (50½ feet) and at 43½ yards from the edge of the hill, on the site of the temple, exactly 6½ feet *below* the Trojan wall which I there brought to light. (See p. 200.) As I have before remarked, the strata of *débris*, which run obliquely to the north below that Trojan wall, prove that

it was built upon the steep slope of the hill, and this is an additional and infallible proof that the buttress, which is erected 6⅔ feet below it, can have served no other purpose than for consolidating and strengthening the ground of the declivity so effectually that buildings of an enormous weight might be erected upon the summit without danger. Now as I have never hitherto found buttresses of this kind for consolidating the declivity of the hill among the strata of the pre-Hellenic period, although there was no lack of grand buildings in the Pergamus of Troy (as is proved by the colossal masses of hewn and unhewn stones from 16⅔ to 20 feet high, mixed with charred *débris*, with which I had to struggle upon my great platform), I positively believe that the above-mentioned buttress was erected to support the site of a temple of great sanctity. I believe this all the more, as the buttress here forms a curve and appears to protect the whole of the north-eastern corner of the hill, which was the extreme end of the Pergamus and perfectly corresponds with Homer's statement about the position of the temple of Athena, "on the summit of the city" (ἐν πόλει ἄκρῃ: *Iliad*, VI. 297). I have no doubt that in ascending from this buttress I shall find the ruins of that ancient temple at a distance of less than 10 meters

arisen solely from the remains of the sacrifices offered to the Ilian Athena.

I had not noticed this buttress at the time of my departure on the 15th of August, and I have now only discovered it because the rain has laid bare two of its stones. It is built of blocks of shelly limestone (*Muschelkalk*), from about a foot to 2 feet 2 inches long and broad, joined with earth, and it probably covered the whole north-eastern corner of the hill from the bottom to the top. I presume that the drain of green sandstone, nearly 8 inches broad and about 7 inches high, which I spoke of in my report of the 25th of April, belongs to the very ancient temple of Athena; it will be remembered that I found it at about 11½ feet above my great platform, and at a distance of 46 feet from the edge of the declivity.

The block of triglyphs with the Sun-god and the four horses, which I found here, proves that the temple which it adorned was built in the Doric style; and, as the Doric is confessedly the oldest style of architecture, the ancient temple of the Ilian Athena was doubtless in that style. We know, however, from the Iliad* that there was also a temple of Apollo in the Pergamus. It probably stood at the south-eastern corner of the hill, for at the foot of it may be seen, in a small excavation, a wall composed of splendid Corinthian pillars joined by means of cement. It is probable that these pillars belong to a temple of Apollo of the time of Lysimachus. In excavating the Tower further to the east, I hope to find the site of this temple, and in its depths the ruins of the very ancient temple of Apollo.

If the Trojans possessed an alphabetical language, I shall probably find inscriptions in the ruins of the two temples. I am, however, no longer sanguine in regard to this, as I have hitherto found no trace of writing in the colossal strata of the four tribes which preceded the Greek colony.†

* *Iliad*, VII. 83 and IV. 508.; see pp. 145–6, 257.

† See note (†). p. 218.

WORK AT HISSARLIK IN 1873.

CHAPTER XV.

Return to Hissarlik in 1873 — Interruptions by holydays and weather — Strong cold north winds — Importance of good overseers — An artist taken to draw the objects found — Want of workmen — Excavations on the site of the Temple — Blocks of Greek sculptured marble — Great increase of the hill to the east — Further portions of the great Trojan wall — Traces of fire — A terra-cotta hippopotamus, a sign of intercourse with Egypt — Idols and owl-faced vases — Vases of very curious forms — Whorls — Sling-bullets of copper and stone — Piece of ornamented ivory belonging to a musical instrument — New cutting from S.E. to N.W. — Walls close below the surface — Wall of Lysimachus — Monograms on the stones — An inscription in honour of Caius Cæsar — Patronage of Ilium by the Julii as the descendants of Æneas — Good wine of the Troad.

north wind* blew with such violence through the chinks of our house-walls which were made of planks, that we were not even able to light our lamps of an evening; and although we had fire on the hearth, yet the thermometer showed 4 degrees of cold (Réaumur = 23° Fahrenheit), and the water standing near the hearth froze in solid masses. During the day we could to some degree bear the cold by working in the excavations, but of an evening we had nothing to keep us warm except our enthusiasm for the great work of discovering Troy. Fortunately this extreme cold lasted only four days, from the 16th to the 19th of this month, and since then we have had glorious weather.

Besides Georgios Photidas, who was with me during the excavations of last year, I have as foremen Georgios Barba Tsirogiannis (a sea-captain from Chalcis in Eubœa), and an Albanese from Salamis, whom, however, I shall shortly send back on account of his uselessness, and get two other foremen from the Piræus in his stead. A good foreman is more useful to me than ten common workmen, but I find that the gift of command is rarely met with except among seamen.

I have also brought with me an artist, that I may have the objects found copied immediately in Indian ink, and the drawings multiplied in Athens by means of photography. This will, however, render it impossible for me to state the depths at which the objects were found upon distinct plates, as I have hitherto done. The articles discovered in the different depths are now mixed together, but in each case the depth, as well as the relative size, is stated in meters, in addition to the number in the catalogue.

Workmen are at present not so easily to be had as before; for a merchant from Smyrna residing here has engaged 150 men to gather a medicinal root, which is here called γλυκόριζα, out of which liquorice-juice is pre-

* This recals to mind Homer's frequent mention of the blasts of Boreas.—[Ed.]

pared. The German word *lakritze*, the French *lacorice*, and the English *liquorice*, are evidently corruptions of γλυκόριζα. Now, as the men employed by the Smyrna merchant work the ground at a certain price by square measure, they earn from 12 to 23 piasters (2 frcs. 40 cent. to 4 frcs. 60 cent.) daily; whereas I can give them only 9 piasters (1 frc. 80 cent.) during the present short days. At Easter I can offer them 10 piasters, and after the 1st of June 12 piasters. As the roots are dug up in the neighbourhood of Renkoï, it is principally the people of this village that are engaged in the work; and for carrying on my excavations I have to apply to the villages of Kafatli-Asmak, Yenishehr, and Neo-Chori, which are situated in and round about the Plain of Troy. If the weather is dry, I can count upon obtaining after to-morrow 120 workmen every day.

On the north side of the hill, at a distance of 131 feet from the declivity and at a depth of 51 feet, the wall of white stones, which rises at an angle of 40 degrees, 6½ feet below the Trojan wall, seems, as I have said, to mark the site of the Greek temple of Athena. Here I am having five terraces made on two sides simultaneously, and the *débris* carried away in man-carts and wheel-barrows. In

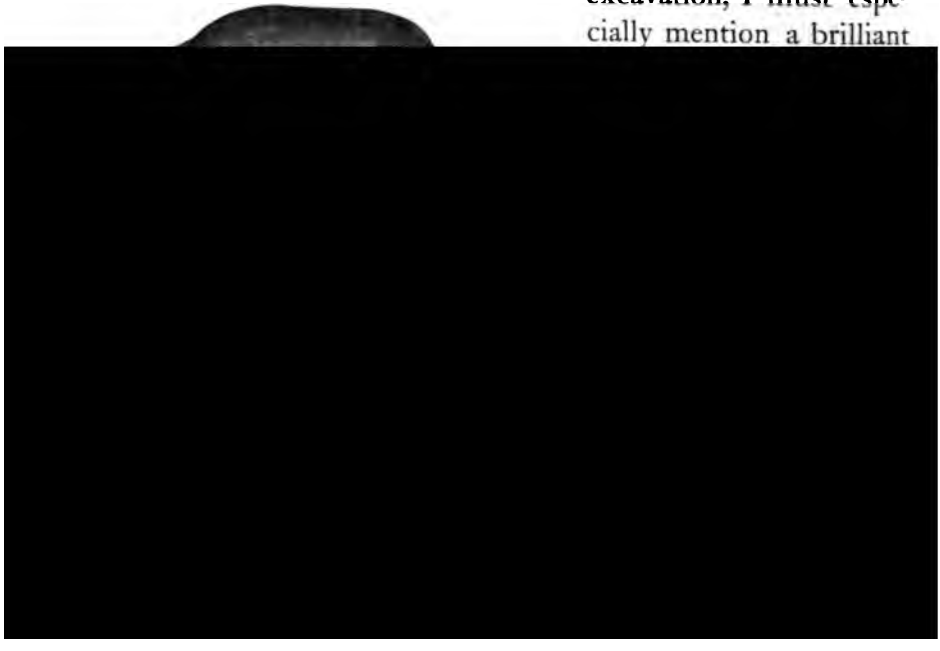
hundreds of years ago by Turks seeking stones suitable for sepulchral monuments; they have also, curiously enough, carried off all the foundations. Below the layer of *débris*, 10 feet thick, which descends at an angle of from 50 to 60 degrees, there is an accumulation of ashes, covering with a crust of 131 feet thick the buttress previously mentioned, which distinctly marks the former declivity of the hill. The declivity at this point is rounded off towards the east; and—as is proved by the fact that the buttress itself (as well as the layers of *débris* that lie above it) turns in the same direction, and that the strata of *débris* which lie above it also extend out to the east—the *eastern* declivity at one time likewise commenced at this point, whereas its present position is 262½ feet distant from it. The hill of the Pergamus has therefore increased 262½ feet in an eastern direction since the buttress was built. I do not believe that there is a second hill in the world whose increase in size, during thousands of years, can in the remotest degree be compared with this enormous growth.

Except those small round terra-cottas in the form of volcanoes and tops, with the usual decorations, and some more or less broken pottery, nothing has as yet been discovered in this excavation. The other cutting—which I opened to reach the supposed site of the very ancient temple of Athena—is at the east end of my large platform, upon which I am again throwing the greater part of the *débris* which is being dug down there, because to remove it beyond the platform would be too difficult. In the mean time I have only had this cutting made 42½ feet broad, but I intend to widen it as soon as I find any prospect of advantage to archæology from doing so. In the lower terrace of this cutting I find the continuation of that Trojan wall which also shows itself in the more eastern cutting. This wall is here only 3¼ feet high, but the stones lying below it leave no doubt that it was at one time much higher. Every visitor to the Troad confirms

my observation of the remarkable fact, that this wall continues on the two sides of my large cutting through the entire hill, to the right and left of the entrance, at a depth of 39½ feet. If this wall belongs to a time preceding the Trojan wall (as to which I can entertain no doubt, owing to its great depth), yet the mighty ruins beneath it, as well as the pavement of white pebbles lying below it, at a depth of 1¾ foot in my large cutting, prove that it must have been built a long time after the *first* destruction of the city. But the real object of the wall here and further to the west is utterly inexplicable to me, for it is built above and through the ruins of mighty buildings.

The strata of *débris* in this cutting all lie horizontally, which leaves no doubt that they have been gradually formed in the course of time. Their composition proves that most of the houses which stood here were destroyed by fire. But there are also several thick strata here, in which we find thousands of shells in a state of good preservation, which proves that they at least cannot have belonged to buildings destroyed by fire.

Among the interesting objects discovered in this excavation, I must especially mention a brilliant



they were worshipped as sacred animals at the Egyptian town of Papremis. At all events, Troy must have been commercially connected with Egypt; but even so, it is still an enigma, how the animal was so well known here as to have been made of clay in a form quite faithful to nature.

Of idols of marble, it is only during these few days that we have found eight, only two of which had the engraved owl's head of the Ilian Athena. Of vases with owl's faces, two female breasts, and two upraised arms, I have found only one, at a depth of 15 meters (49¼ feet), and at a depth of 7 meters (23 feet) the upper portion of another, upon which the stump of one of the arms may still be recognised. At a depth of 10 feet we found two vases, with two female breasts and an immense navel, which are doubtless also intended to represent the tutelary goddess of Troy. Lastly, of vase-covers with an owl's face and helmet, the first found was at a depth of 1 meter (3¼ feet), having a double handle in the form of a coronet; another, found at a depth of 3 meters (26 feet), has a simple handle. Among the other terra-cotta vessels I must specially mention an exceedingly remarkable cup in the form of a bugle-horn with three feet, which was found at a depth of 3 meters (10 feet); also a vessel with

No. 160.
Remarkable Terra-cotta Vessel, in the shape of a Bugle, with three feet (3 M.).

No. 161.
Terra-cotta Vessel with three feet, a handle, and two ears (5 M.).

but two feet, which, however, as is proved by the broken places on the right side, has been attached to some other

vessel of a similar form and description; this double vessel had a ring on either side for suspension by strings. Of the other earthenware I can only mention a small curious vase which has three long feet, one handle, and two others in the form of ears.

The round articles of terra-cotta in the form of volcanoes and humming-tops, with symbolical decorations, were met with in great quantities, as they always are. Four sling-bullets were discovered, one of which, made of copper, was brought out from a depth of 49 feet, one of alabaster from 23 feet, and two of diorite from a depth of from 20 to 23 feet. At a depth of 4 meters (13 feet) I found a splendidly ornamented flat piece of ivory, which must evidently have been part of a musical instrument.* Lastly, at the depth of 1 meter (3¼ feet) there was a fragment of a female statue of fine marble, executed in a masterly style. It not improbably represents the tutelary goddess of Ilium, whose temple, as we know, stood in the Pergamus.

Simultaneously with these excavations I had 22 men working in a north-westerly direction, from the south-eastern corner of the Acropolis, in order to lay bare the Great Tower still further on that side, an operation that has become impossible to effect from my great trench.

of large blocks of Corinthian pillars joined by cement and of other marble blocks taken from ancient buildings. The second wall, which follows immediately, must certainly belong to the town-wall built by Lysimachus, which was 40 stadia long.* It is composed of large and beautifully hewn blocks of limestone, which are laid one upon another without any kind of cement, and which generally bear a monogram. As the letter is not always the same, and as for instance upon one stone there is a Σ, and upon another an Υ or a Δ, I presume that they are the initials of the different builders. In the first wall I found a marble slab nearly a foot thick, 32½ inches broad, and 3½ feet long, with the following inscription:—

ΗΒΟΥΛΗΚΑΙΟΔΗΜΟΣ
ΓΑΙΟΝΚΑΙΣΑΡΑΤΟΝΥΙΟΝΤΟΥΣΕΒΑΣ
ΤΟΥΤΟΝΣΥΝΓΕΝΗΚΑΙΠΑΤΡΩΝΑΚΑΙΕΥ
ΕΡΓΕΤΗΝΤΗΣΠΟΛΕΩΣ

Ἡ *βουλὴ καὶ ὁ δῆμος*
Γάϊον Καίσαρα τὸν υἱὸν τοῦ Σεβαστοῦ τὸν συνγενῆ καὶ πατρῶνα καὶ εὐεργέτην τῆς πόλεως.

The person praised in this inscription can by no means have been the Emperor Caligula, for in that case the title *αὐτοκράτωρ* would have been added. But as this word is wanting, the person meant is certainly Caius Cæsar, the son of Vipsanius Agrippa and of Julia, the daughter of Octavianus. He had a brother called Lucius. Both were adopted by Augustus, and owing to this adoption they received the title of "*υἱὸς τοῦ Σεβαστοῦ*," and both were selected by Augustus as his successors. Caius Cæsar, born in the year 20 B.C., was adopted at the age of three years. He took part in the Trojan games, which Augustus

* Strabo, XIII., pp. 100, 101, Tauchnitz edition.

instituted at the dedication of the temple of Marcellus. At the age of fifteen he was appointed Consul, and when nineteen he was made Governor of Asia. During his administration there he became involved in a war with Phraates the king of Armenia, was wounded, and died in the year 4 after Christ, on the 21st of February, at the age of 24.* As in the inscription he is called the kinsman, the benefactor, and the patron of Ilium, it is probable that he often came here during his administration; at all events, he took great interest in the city, and lavished favours upon it. The family of the Julii always attached great importance to their descent from Iülus (or Ascanius) the son of Æneas; and the sole political object of Virgil's Æneid was to prove and glorify their genealogy. This explains the favours which the Julii lavished upon Ilium, and their hatred against the Greeks because they destroyed Troy, and also because they had espoused the cause of Mark Antony.

An *oka* of wine, which contains about two ordinary wine-bottles, last year cost 1¼ piaster (25 centimes); now it costs 2 piasters (40 centimes) the oka; but it is of a most excellent quality, and I prefer it to any French wine.

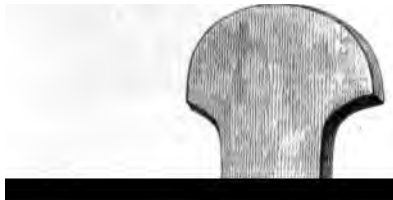
CHAPTER XVI.

Increased number of workmen — Further uncovering of the great buttress — Traces of a supposed small temple — Objects found on its site — Terra-cotta serpents' heads: great importance attached to the serpent — Stone implements: hammers of a peculiar form — Copper implements: a sickle — Progress of the works at the south-east corner — Remains of an aqueduct from the Thymbrius — Large jars, used for cellars — Ruins of the Greek temple of Athena — Two important inscriptions discussed — Relations of the Greek Syrian Kings Antiochus I. and III. to Ilium.

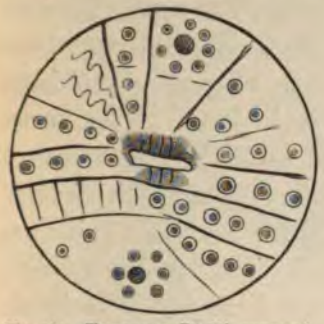
Pergamus of Troy, March 1st, 1873.

SINCE Monday morning, the 24th of last month, I have succeeded in increasing the number of my workmen to 158, and as throughout this week we have had splendid weather, I have been able to accomplish a good stroke of work in the six days, in spite of the many hindrances and difficulties which I had at first to struggle against. Since the 1st of February I have succeeded in removing more than 11,000 cubic yards of *débris* from the site of the temple. To-day, at last, I have had the pleasure of uncovering a large portion of that buttress, composed of large unhewn white stones, which at one time covered the entire north-eastern corner of the declivity, whereas, in consequence of its increase in size during the course of many centuries by the ashes of the sacrificed animals, the present declivity of the hill is 131 feet distant from it to the north, and 262½ feet distant to the east. To my surprise I found that this buttress reaches to within 26 feet of the surface, and thus, as the primary soil is elsewhere always at from 46 to 52½ feet below the surface, it must have covered an isolated hill from 20 to 26 feet high, at the north-east end of the

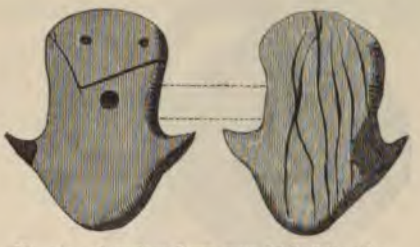
Pergamus, where at one time there doubtless stood a small temple. Of this sanctuary, however, I find nothing but red wood-ashes, mixed with the fragments of brilliant black Trojan earthenware, and an enormous number of unhewn stones, which seem to have been exposed to a fearful heat, but no trace of sculpture: the building must therefore have been very small. I have broken through the buttress of this temple-hill at a breadth of 13 feet, in order to examine the ground at its foundation. I dug it away to a depth of 5 feet, and found that it consists of the virgin soil, which is of a greenish colour. Upon the site of the small and very ancient temple, which is indicated by the buttress, I find in two places pure granular sand, which appears to extend very far down, for after excavating it to a depth of 6½ feet I did not reach the end of the stratum. Whether this hill consists entirely, or but partially, of earth and sand, I cannot say, and must leave it undecided, for I should have to remove thousands more of cubic yards of rubbish. Among the *débris* of the temple we found a few, but exceedingly interesting objects, for instance, the largest marble idol that has hitherto been found, which is 5¼ inches long and 3



owl's face, two female breasts and a large navel; of the face only one eye and an ear is preserved. I must draw especial



No. 164. Terra-cotta Pot-lid, engraved with symbolical marks (6 M.).



No. 165. A curious Terra-cotta Idol of the Ilian Athena (7 M.).

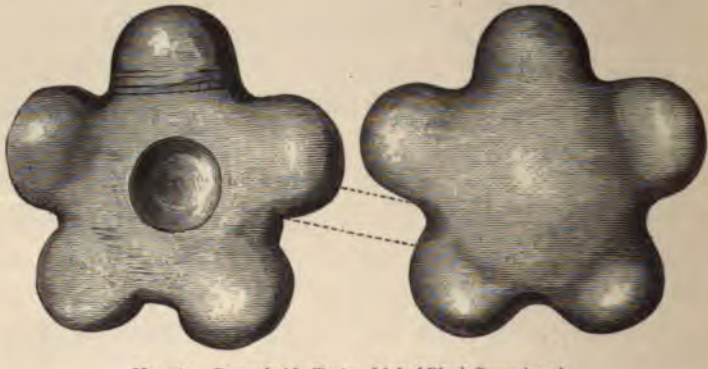
attention to the fact that both upon the vases with owls' heads two female breasts and a navel, and upon all of the others without the owl's face and adorned only with two female breasts and a navel, the latter is always ten times larger than the breasts. I therefore presume that the navel had some important significance, all the more so as it is frequently decorated with a cross, and in one case even with a cross and the marks of a nail at each of the four ends of the cross.* We also discovered among the ruins of the small and very ancient building some pretty wedges (battle-axes), and a number of very rude hammers made of diorite; besides a quantity of those small red and black terra-cotta whorls, with the usual engravings of four or five 卐, or of three, four, or five triple rising suns in the circle round the central sun, or with other extremely strange decorations.

At a depth of 7 to 8 meters (23 to 26 feet), we also came upon a number of vases having engraved decorations, and with three feet or without feet, but generally with rings at the sides and holes in the mouth for suspension by strings; also goblets in the form of a circular tube, with a long spout at the side for drinking out of, which is always

* See Cut, No. 13, p. 35.

connected with the other side of the tube by a handle; further, smaller or larger jars with a mouth completely bent backwards; small terra-cotta funnels; very curious little sling-bullets made of diorite, from only ¾ of an inch to above 1 inch long. The most remarkable of all the objects found this year is, however, an idol of very hard black stone above 2½ inches long and broad, discovered at a depth of 9 meters (29½ feet). The head, hands, and feet have the form of hemispheres, and the head is only recognised by several horizontal lines engraved below it, which seem to indicate necklaces. In the centre of the

No. 166. Pretty Terra-cotta Jug, with the neck bent back (7 M.).



No. 167. Remarkable Trojan Idol of Black Stone (7 M.).

belly is a navel, which is as large as the head, but, instead of protruding as in the case of the vases, it is indicated by a circular depression. The back of the middle of the body is arched, and has the appearance of a shield, so that in looking at the idol one is involuntarily led to believe that it represents Mars, the god of war.

At a depth of from 4 to 7 meters (13 to 23 feet) we also met with fragments of terra-cotta serpents, whose heads are sometimes represented with horns. The latter must

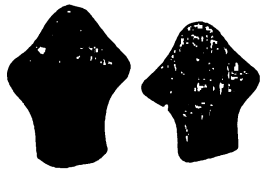
certainly be a very ancient and significant symbol of the greatest importance, for even now there is a superstition that the horns of serpents, by merely coming in contact with the human body, cure a number of diseases, and especially epilepsy; also that by dipping them in milk the

Nos. 168, 169. Heads of Horned Serpents (4 M.).

latter is instantly turned into cheese, and other notions of the same sort. On account of the many wholesome and useful effects attributed to the horns of serpents, they are regarded as immensely valuable, and on my return here at the end of January one of my last year's workmen was accused by a jealous comrade of having found two serpents' horns in an urn at a depth of 52½ feet, and of having made off with them. All my assurances that there are no such things as serpents' horns could not convince the men, and they still believe that their comrade has robbed me of a great treasure. The serpents' heads not ornamented with horns generally represent the poisonous asp; above the mouth they have a number of dots, and the head and back are divided

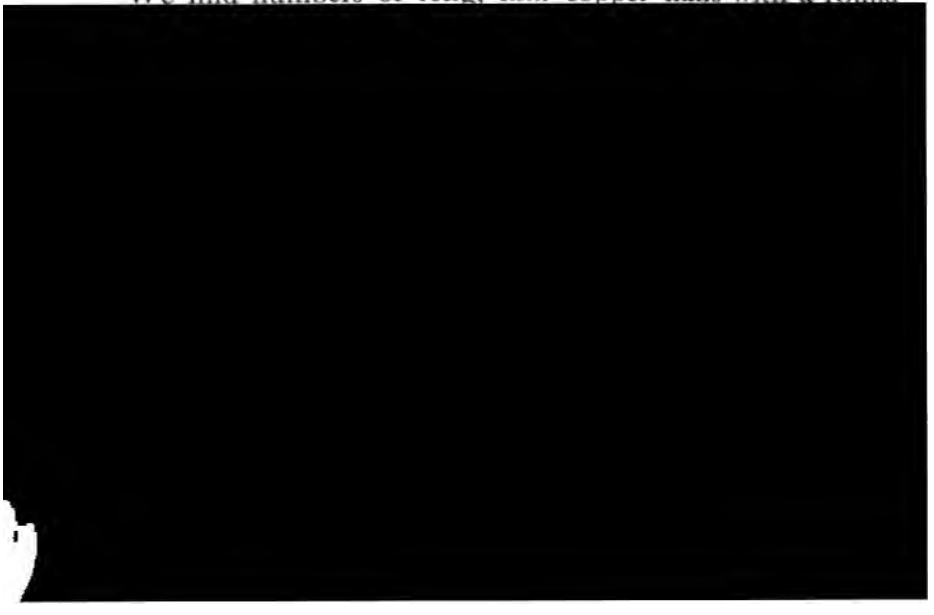
No. 170. A Serpent's Head, with horns on both sides, and very large eyes (6 M.).

by cross lines into sections which are filled with dots.* These flat serpents' heads have on the opposite side lines running longitudinally like female hair. We also found terra-cotta cones an inch and a half high, with three holes not pierced right through. At a depth of from 3¼ to 6½ feet we have discovered several more terra-cotta vases without the owl's face, but with two female breasts and a large navel, and with two small upright handles in the form of arms. In all the strata below 13 feet we meet with quantities of implements of diorite, and quoits of granite, sometimes also of hard limestone. Hammers and wedges (battle-axes) of diorite and of green stone were also found, in most cases very prettily wrought. The hammers do not all possess a perforated hole; upon many there is only a cavity on both sides, about ⅛ to ⅜ of an inch deep.



No. 171. Head of an Asp in Terra-cotta (both sides) (¼ M.).

Of metals, copper only was met with. To-day we found a copper sickle 5½ inches long; of copper weapons we have to-day for the first time found two lances at a depth of 23 feet, and an arrow-head at 4 meters (13 feet) deep. We find numbers of long, thin copper nails with a round



I am now also vigorously carrying forward the cutting which I made on the south-eastern corner of the Pergamus, for uncovering the eastern portion of the Great Tower as far as my last year's cutting, to a length of 315 feet and a breadth of from 65½ to 78¾ feet. The work advances rapidly, as this excavation is near the southern declivity of the hill, and the rubbish has therefore not far to be carted off. I have made eight side passages for removing it. Experience has taught me that it is far more profitable not to have any special men for loading the wheel-barrows, but to let every workman fill his own barrow. Experience has also shown me that much precious time is lost in breaking down the earthen walls with the long iron levers driven in by a ram, and that it is much more profitable and less dangerous to the workmen always to keep the earthen walls at an angle of 55 degrees, to dig as occasion requires, and to cut away the rubbish from below with broad pickaxes. In this new excavation I find four earthen pipes, from 18¾ to 22¼ inches long, and from 6½ to 11¾ inches thick, laid together for conducting water, which was brought from a distance of 1½ German mile (about 7 English miles) from the upper Thymbrius. This river is now called the Kemar, from the Greek word *καμάρα* (vault), because an aqueduct of the Roman period crosses its lower course by a large arch. This aqueduct formerly supplied Ilium with drinking water from the upper portion of the river. But the Pergamus required special aqueducts, for it lies higher than the city.

In this excavation I find an immense number of large earthen wine-jars (*πίθοι*) from 1 to 2 meters (3¼ to 6½ feet) high, and 29½ inches across, as well as a number of fragments of Corinthian pillars and other splendidly sculptured blocks of marble. All of these marble blocks must certainly have belonged to those grand buildings whose southern wall I have already laid bare to a length of

285½ feet. It is composed of small stones joined with a great quantity of cement as hard as stone, and rests upon large well hewn blocks of limestone. The direction of this wall, and hence of the whole building, is E.S.E. by E.

Three inscriptions, which I found among its ruins, and in one of which it is said that they were set up in the "ἱερόν," that is, in the temple, leave no doubt that this was the temple of the Ilian Athena, the "πολιοῦχος θεά," for it is only this sanctuary that could have been called simply "τὸ ἱερόν," on account of its size and importance, which surpassed that of all the other temples of Ilium. Moreover the position of the building, which is turned towards the rising sun, corresponds exactly with the position of the Parthenon and all the other temples of Athena. From the very commencement of my excavations I have searched for this important sanctuary, and have pulled down more than 130,000 cubic yards of *débris* from the most beautiful parts of the Pergamus in order to find it; and I now discover it exactly where I should have least expected to come upon it. I have sought for this *new* temple, which was probably built by Lysimachus, because I believed, and still believe, that in its depths I shall find the ruins of the primeval temple of Athena, and I am more likely here

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ΜΕΝ ΕΡΡΩΣΟ

Μελέαγρος Ἰλιέων τῆι βουλῆι καὶ τῶι δήμωι χαίρειν. Ἀπέδωκεν ἡμῖν Ἀριστοδικίδης ὁ Ἄσσιος ἐπιστολὰς παρὰ τοῦ βασιλέως Ἀντιόχου, ὧν τἀντίγραφα ὑμῖν ὑπογεγράφαμεν· ἐνέτυχεν δ' ἡμῖν καὶ α(ὐ)τὸς φάμενος, πολλῶν αὐτῶι καὶ ἑτέρων, διαλεγομένων καὶ στέφανον διδόντων, ὥσπερ καὶ ἡ-

γῆς ἐργασίμου πλέθρα δισχίλια προσενέγκασθαι
πρὸς τὴν Ἰλιέων πόλιν ἢ Σκηψίων. Σὺ οὖν σύνταξον
παραδεῖξαι Ἀριστοδικίδηι ἀπὸ τῆς ὁμορούσης τῆι
Γεργιθίαι ἢ τῆι Σκηψίαι, οὗ ἂν δοκιμάζηις τὰ δισχίλια
πλέθρα τῆς γῆς καὶ προσορίσαι εἰς τὴν Ἰλιέων ἢ τὴν
Σκηψίων. ἔῤῥωσο. Βασιλεὺς Ἀντίοχος Μελε-
άγρωι χαίρειν. Ἐνέτυχεν ἡμῖν Ἀριστοδικίδης ὁ
Ἄσσιος ἀξιῶν δοῦναι αὐτῶι ἡμᾶς ἐν τῆι ἐφ' Ἑλλησ-
πόντου σατραπείαι τὴν Πέτραν, ἣμ πρότερον
εἶχεν Μελέαγρος καὶ τῆς χώρας τῆς Πετρίδος
ἐργασίμου πέθρα*[1] χίλια πεντακόσια καὶ ἄλλα
γῆς πλέθρα δισχίλια ἐργασίμου ἀπὸ τῆς ὁμο-
ρούσης τῆι πρότερον δοθείσηι αὐτῶι μεριδίωι (;)
καὶ ἡμεῖς τήν τε Πέτραν δεδώκαμεν αὐτῶι, εἰ
μὴ δέδοται ἄλλωι πρότερον καὶ τὴγ χώραν τὴν
πρὸς τῆι Πέτραι καὶ ἄλλα γῆς πλέθρα δισχίλια
ἐργασίμου, διὰ τὸ φίλον ὄντα ἡμέτερον παρεσ-
χῆσθαι ἡμῖν τὰς καθ' αὐτὸν χρείας μετὰ πάση (ς)
εὐνοίας καὶ προθυμίας. Σὺ οὖν ἐπισκεψάμενος
εἰ μὴ δέδοται ἄλλωι πρότερον αὖτη ἡ μερίς (;), πα-
ράδειξον αὐτὴν καὶ τὴν πρὸς αὐτῆι χώραν Ἀριστ-
οδικικίδηι*[2] καὶ ἀπὸ τῆς βασιλικῆς χώρας τῆς ὁμο-
ρούσης τῆι πρότερον δεδομένηι χώραι Ἀριστοδι-
κίδηι σύνταξον καταμετρῆσαι καὶ παραδεῖξαι
αὐτῶι πλέθρα δισχίλια καὶ ἐᾶσαι αὐτῶι προσενέγ-
κασθαι πρὸς ἣν ἂμ βούληται πόλιν τῶν ἐν τῆι χώραι
τε καὶ συμμαχίαι· οἱ δὲ βασιλικοὶ λαοὶ οἱ ἐκ τοῦ τό-
που, ἐν ᾧι ἐστὶν ἡ Πέτρα, ἐὰμ βούλωνται οἰκεῖν ἐν τῆ (ι)
Πέτραι ἀσφαλείας ἕνεκε, συντετάχαμεν Ἀριστο-
τοδικίδηι*[3] ἐᾶν αὐτοὺς οἰκεῖν. ἔῤῥωσο.
Βασιλεὺς Ἀντίοχος Μελεάγρωι χαίρειν. Ἐνέτυχεν ἡ-
μῖν Ἀριστοδικίδης, φάμενος Πέτραν τὸ χωρίον καὶ τὴ (γ)
χώραν τὴν συγκυροῦσαν, περὶ ἧς πρότερον ἐγράψαμεν
διδόντες αὐτῶι, οὐδ' ἔτι καὶ νῦν παρειληφέναι, διὰ τὸ Ἀθη-
ναίωι τῶι ἐπὶ τοῦ ναυστάθμου ἐπικεχωρῆσθαι, καὶ ἠξί

*[1] sic *[2] sic. *[3] sic.

ωσεν ἀντὶ μὲν τῆς Πετρίτιδος χώρας παραδειχθῆνα(ι)
αὐτῶι τὰ ἴσα πλέθρα, συγχωρηθῆναι δὲ καὶ ἄλλα πλέθρα δισχίλια προσενέγκασθαι πρὸς ἣν ἂμ βούληται τῶμ πόλεων τῶν ἐν τῆι ἡμετέραι συμμαχίαι, καθάπερ καὶ πρότερον ἐγράψαμεν. Ὁρῶντες οὖν αὐτὸν εὔνουν ὄντα καὶ πρόθυμον εἰς τὰ ἡμέτερα πράγματα, βουλόμεθα πολυωρεῖν τἀνθρώπου, καὶ περὶ τούτων συγκεχωρήκαμεν. Φησὶν δὲ εἶναι τῆς Πετρίτιδος χώρας τὰ συγχωρηθέντα αὐτῶι πλέθρα χίλια πεντακόσια. Σύνταξον οὖν καταμετρῆσαι Ἀριστοδικίδηι καὶ παραδεῖξαι γῆς ἐργασίμου τά τε δισχίλια καὶ πεντακόσια πλέθρα καὶ ἀντὶ τῶν περὶ τὴν Πέτραν ἄλλα ἐργασίμου χίλια πεντακόσια ἀπὸ τῆς βασιλικῆς χώρας τῆς συνοριζούσης τῆι ἐν ἀρχῆι δοθείσηι αὐτῶι παρ' ἡμῶν· ἐᾶσαι δὲ καὶ προσενέγκασθαι τὴν χώραν Ἀριστοδικίδην πρὸς ἣν ἂν βούληται πόλιν τῶν ἐν τῆι ἡμετέραι συμμαχίαι, καθάπερ καὶ ἐν τῆι πρότερον ἐπιστολῆι ἐγράψαμεν. ἔῤῥωσο.

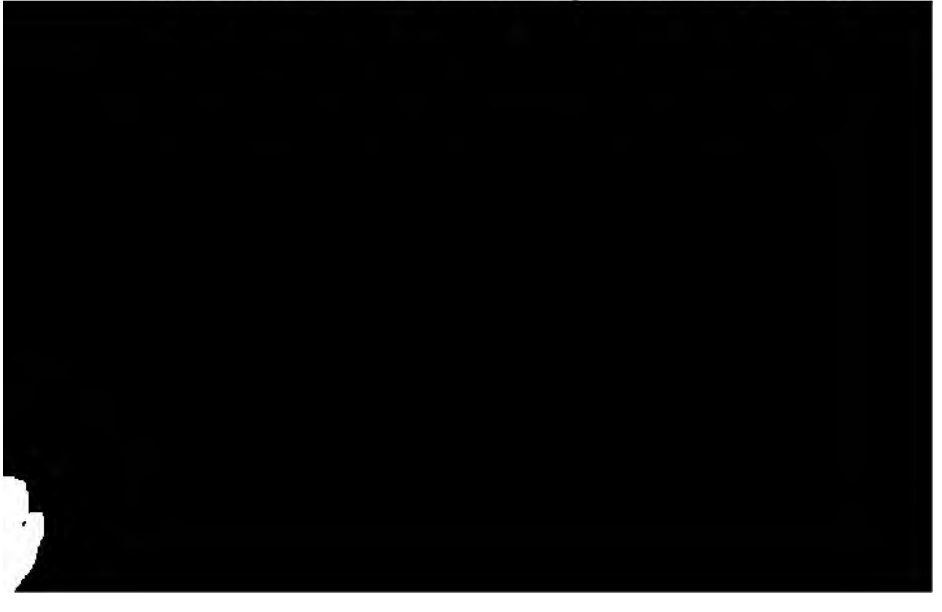
This inscription, the great historical value of which cannot be denied, seems certainly to belong to the third

of assigning to Aristodicides the 2000 plethra of land, either from the district bordering upon the territory of Gergis or upon that of Scepsis. The town of Gergis, however, according to Strabo, was destroyed by king Attalus I. of Pergamus, who reigned from 241 to 197 B.C., and who transplanted the inhabitants to the neighbourhood of the sources of the Caïcus in Mysia. These sources, however, as Strabo himself says, are situated very far from Mount Ida, and hence also from Ilium. Two thousand plethra of land at such a distance could not have been of any use to the Ilians; consequently, it is impossible to believe that the inscription can be speaking of the new town of Gergitha, which was rising to importance at the sources of the Caïcus. I now perfectly agree with Mr. Frank Calvert,* and with Consul von Hahn,† that the site of Gergis is indicated by the ruins of the small town and acropolis at the extreme end of the heights behind Bunarbashi, which was only a short time ago regarded by most archæologists as the site of the Homeric Troy. This site of Gergis, in a direct line between Ilium and Scepsis, the ruins of which are to be seen further away on the heights of Mount Ida, agrees perfectly with the inscription. Livy (XXXV. 43) gives an account of the visit of Antiochus III., the Great. I also find in the 'Corpus Inscriptionum Græcarum,' No. 3596, that the latter had a general called Meleager, who may subsequently have become satrap of the Hellespont. On the other hand, Chishull, in his 'Antiquitates Asiaticæ,' says that Antiochus I., Soter, on an expedition with his fleet against the King of Bithynia, stopped at the town of Sigeum, which lay near Ilium, and that the king went up to Ilium with the queen, who was his wife and sister, and with the great dignitaries and his suite. There is, indeed, nothing said of the brilliant reception which was there prepared

* *Archæological Journal*, vol. xxi. 1864.

† *Die Ausgrabungen auf der homerischen Pergamos*, s. 24.

for him, but there is an account of the reception which was arranged for him in Sigeum. The Sigeans lavished servile flattery upon him, and not only did they send ambassadors to congratulate him, but the Senate also passed a decree, in which they praised the king's actions to the skies, and proclaimed that public prayers should be offered up to the Ilian Athena, to Apollo (who was regarded as his ancestor), to the goddess of Victory and to other deities, for his and his consort's welfare; that the priestesses and priests, the senators and all the magistrates of the town should carry wreaths, and that all the citizens and all the strangers settled or temporarily residing in Sigeum should publicly extol the virtues and the bravery of the great king; further, that a gold equestrian statue of the king, standing on a pedestal of white marble, should be erected in the temple of Athena in Sigeum, and that it should bear the inscription: "The Sigeans have erected this statue to King Antiochus, the son of Seleucus, for the devotion he has shown to the temple, and because he is the benefactor and the saviour of the people; this mark of honour is to be proclaimed in the popular assemblies and at the public games." However, in this wilderness it is impossible for me to find out from which ancient classic writer this episode has been taken.



Turkish names of the localities, or by other means, have been made in vain.

The other inscription runs as follows:—

ΩΝΙΟΥΤΟΥΕΥΔ
ΟΣΜΕΝ ΟΥΚΑΜΕΝΑΧΟΣΓΛΑΥΚΟ
ΕΠΕΓΡΑΨΑΜΕΝΕΙΣΣΤΗΛΗΝΚΑΤΑΤΟΝΝΟΜΟΝΕΡΓΟΦΙΛΟΝΠΑΤΡΟΣΟΥ
ΧΡΗΜΑΤΙΣΖΗΕΖΗΜΙΩΜΕΝΟΝΥΠΟΤΩΝΠΡΟΤΑΝΕΩΝΤΩΝΠΕΡΙΔΙΟ
ΦΑΝΗΝΗΓΗΣΙΔΗΜΟΥΟΦΙΛΟΝΤΑΤΟΥΣΚΑΤΑΤΟΝΝΟΜΟΝΣΤΑΤΗΡΑΣΔΥΟ
ΚΑΙΜΗΝΟΓΕΝΗΝΜΝΗΣΑΡΧΟΥΚΑΙΑΡΤΕΜΙΔΩΡΟΝΦΑΝΙΑΚΑΙΔΙΟΜΗΔΗΝ
ΑΠΟΛΛΩΝΙΟΥΕΖΗΜΙΩΜΕΝΟΥΣΥΠΟΤΩΝΠΡΥΤΑΝΕΩΝΤΩΝΠΕΡΙΔΙΟΦΑΝΗΝ
ΗΓΗΣΙΔΗΜΟΥΥΠΟΗΜΕΡΑΣΤΡΕΙΣΟΦΙΛΟΝΤΑΣΕΚΑΣΤΟΝΑΥΤΩΝΣΤΑΤΗΡΑΣΔΥΟ
ΜΗΝΟΔΟΤΟΝΜΗΝΟΔΟΤΟΥΚΑΙΗΡΑΚΛΕΙΔΗΝΚΑΙΜΗΝΟΔΟΤΟΝΤΟΥΣΗΡΑΚΛΕΙ
ΔΟΥΕΖΗΜΙΩΜΕΝΟΥΣΥΠΟΤΩΝΠΕΡΙΦΑΙΝΩΝΑΚΤΑΕΥΔΗΜΟΥΠΡΥΤΑ
ΝΕΩΝΟΦΙΛΟΝΤΑΕΚΑΣΤΟΝΑΥΤΩΝΣΤΑΤΗΡΑΣΔΥΟ
ΑΡΤΕΜΙΔΩΡΟΝΜΗΝΟΦΑΝΤΟΥΕΖΗΜΙΩΜΕΝΟΝΥΠΟΤΩΝΝΟ
ΜΟΦΥΛΑΚΩΝΤΩΝΠΕΡΙΙΠΠΑΡΧΟΝΗΓΗΣΙΔΗΜΟΥΟΦΙΛΟΝ
ΤΑΣΤΑΤΗΡΑΣΔΥΟ

. . . . . .

. . . . . *ωνίου τοῦ Εὐδ . . . .*

. . . . . *οσμεν . . . . . ουκαμεναχος γλαυκο . .*

ἐπεγράψαμεν εἰς στήλην κατὰ τὸν νόμον Ἐργόφιλον Πατρόσου (;) Χρήματις[*1] *ζη*[*2] *ἐζημιωμένον ὑπὸ τῶν προτάνεων*[*3] *τῶν περὶ Διοφάνην Ἡγησιδήμου, ὀ(φ)ίλοντα τοὺς κατ(ὰ) τὸν νόμον στατῆρας δύο καὶ Μηνογένην Μνησ(άρχ;)ου καὶ Ἀρτεμίδωρον Φανία καὶ Διομήδην Ἀπολλωνίου, ἐζημιωμένους ὑπὸ τῶν πρυτάνεων τῶν περὶ Διοφά(νην) Ἡγησιδήμου ὑπὸ ἡμέρας τρεῖς ὀφίλοντας ἕκαστον αὐτῶν στατῆρας δύο Μηνόδοτον Μηνοδότου καὶ Ἡρακλείδην καὶ Μηνόδοτον τοὺς Ἡρακλείδου ἐζημιωμένους ὑπὸ τῶν περὶ Φαινώνακτα Εὐδήμου πρυτάνεων, ὀφείλοντα ἕκαστον αὐτῶν στατῆρας δύο. Ἀρτεμίδωρον Μηνοφάντου ἐζημιωμένον ὑπὸ τῶν νομοφυλάκων τῶν περὶ Ἵππαρχον Ἡγησιδήμου, ὀφίλοντα στατῆρας δύο.*

In the inscription quoted in the 'Corpus Inscriptionum Græcarum' under No. 3604, which is admitted to belong to the time of Augustus Octavianus, Hipparchus is mentioned as a member of the Ilian Council, and as on line 13 the same name occurs with the same attribute, I do not hesitate to maintain that the above inscription belongs to the same period.

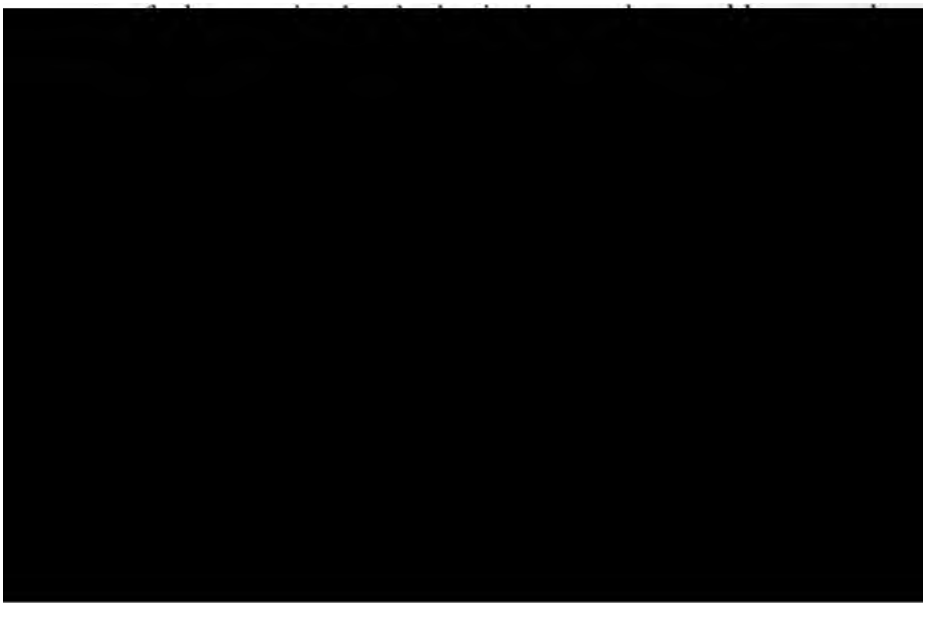
[*1] sic. [*2] sic. [*3] sic.

CHAPTER XVII.

Spring weather in the Plain of Troy — The Greek Temple of Athena — Numerous fragments of sculpture — Reservoir of the temple — Excavation of the Tower — Difficulties of the work — Further discoveries of walls — Stone implements at small depths — Important distinction between the plain and decorated whorls — Greek and Roman coins — Absence of iron — Copper nails: their peculiar forms: probably dress and hair pins: some with heads and beads of gold and electrum — Original height of the Tower — Discovery of a Greek house — Various types of whorls — Further remarks on the Greek bas-relief — It belonged to the temple of Apollo — Stones from the excavations used for building in the villages around — Fever.

Pergamus of Troy, March 15th, 1873.

SINCE my report of the 1st of this month I have continued the excavations with great zeal, favoured by glorious weather and an abundance of workmen. The nights are cold, and the thermometer still frequently falls to freezing point towards morning, whereas during the day the heat

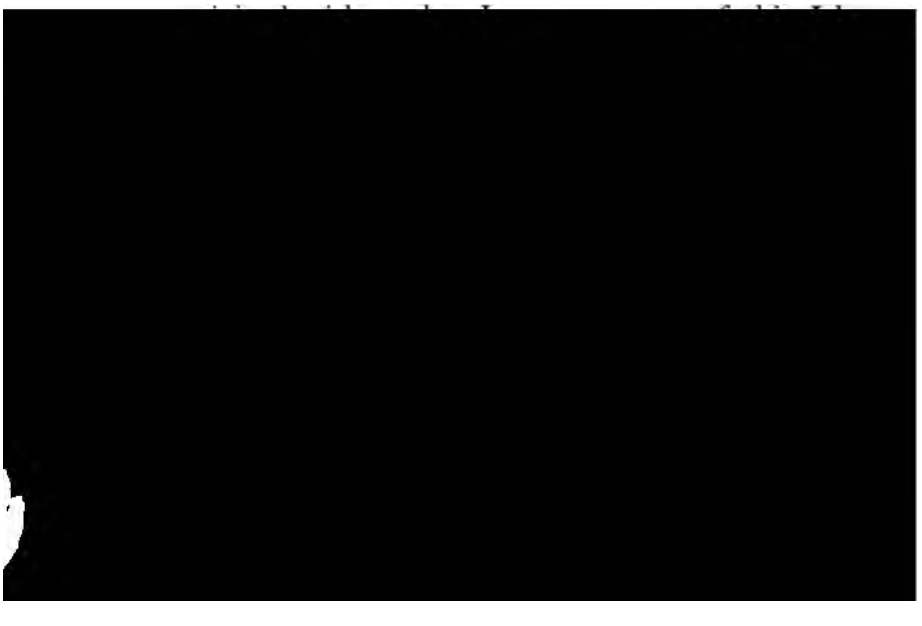


wilderness is the hideous shrieking of the innumerable owls which build their nests in the holes of the walls of my excavations; their shrieks sound mysterious and horrible, and are especially unendurable at night.

I have proceeded with the excavation of the site of the Temple of Athena with the greatest energy. The foundations of this sanctuary nowhere extend deeper than 2 meters (6½ feet), and generally only to 1 meter (3¼ feet). The floor, which consists of large slabs of sandstone, and which rests upon double layers of large hewn blocks of the same stone, is frequently covered only with a foot, and never with more than 3¼ feet, of vegetable soil; this explains the total absence of entire sculptures. For whatever sculptures there were in or upon the temple could not sink into the ground on the summit of the hill, and they therefore remained lying on the surface for many centuries, till they were destroyed by religious zeal or wantonness. This, and this alone, explains the enormous mass of fragments of statues which cover the entire hill.

I find, however, a great number of large sculptured blocks of marble in the Corinthian style which are difficult to destroy, and the removal of which causes me great trouble and loss of time. As the Tower, which I partly uncovered last year, extends directly below the temple at a great depth, and as I wish at all events to lay bare its entire breadth, I shall leave only the ruins of the north and south walls of the temple standing, and break away all the rest, except a reservoir, 27 feet long and 26 feet broad, which is in the sanctuary, and is built of blocks of limestone laid together without cement or lime, and the walls of which have a thickness of 8 feet. The four aqueducts mentioned in my last report empty themselves into the reservoir. I shall leave it standing in order to give visitors to the Troad a faint idea of the trouble which I have to take in removing all the stones of a temple which is about 288 feet long and 72½ feet broad. But what is even much more difficult

than the removal of the stones, is the carrying off of the *débris*, for as the excavation is made on the flat earth, this can only be effected by side paths, which become steeper the deeper we dig. However, I only wish to uncover the top of the ruined Tower, for to bring it to light down to the primary soil is a piece of work to which my patience is unequal. This new large cutting, therefore, only requires a depth of 26 feet, and on the western end I have given it a breadth of 78¾ feet. By this means I hope to reach the ancient and highly important monument on the north side in two or three days. As soon as this is done, I shall have an upper and a lower terrace made for facilitating the removal of the rubbish, and shall thus in a month from to-day be able to finish the entire excavation of the Tower as far as its eastern end, which I came upon yesterday in my steep cutting at the south-eastern corner of the Pergamus, and of which I have laid open a breadth of 13 feet. This eastern side of the Tower, thus brought to light, runs down at an angle of 60 degrees, and has the same appearance as the ancient buttress which I uncovered at the north side of the Pergamus. As I did not at first think that it was the Tower, I had the first layer of stones broken off, but I soon found a piece of masonry composed of large



through two Trojan walls, the first of which is 5¼ feet thick, and the second 10 feet; both consist of stones joined with earth. The first of these walls is directly below a portion of the western wall of the comparatively modern Temple of Athena, and as—according to my pocket compass—it runs due E.S.E.½E., I at first thought that it might belong to the ancient diminutive temple of the Ilian tutelary goddess, which Alexander the Great * found here. But nothing further has appeared which could help to prove this. The second wall, 10 feet thick, is extremely interesting, for it is built of large unhewn blocks of shelly limestone (*Muschelkalk*), and on the top of it is a wall of small stones joined with earth. It evidently belongs to a much later age, but was in any case built long before the arrival of the Greek colony in Ilium. But even the lower wall of large stones was not built till the Tower of Ilium had formed a heap of *débris* 20 feet high; it must therefore have been built centuries after the erection of the Tower. This *débris* consists of ashes mixed with bones and small shells, and on account of its dampness and toughness is just as difficult to break down as damp limestone rock. In it I found many fragments of those Trojan vessels, which are of a brilliant red or black colour, both outside and inside, but nothing else of any interest. Above the Tower, at the east side of the Pergamus, there is nothing but yellow wood-ashes and a great number of stones. In fact, down to the present depth of 4½ meters (14¼ feet) below the surface, that is, from 7 to 10 feet below the foundations of the temple of Athena, I find nothing but yellow wood-ashes, and among these an immense number of enormous earthen jars (*πίθοι*) from 3¼ to 6½ feet long, and pointed below, which must have served not only as wine and water jars, but as cellars for keeping provisions, for there are no walled cellars.

Stone implements, such as I found in my former excavations only below a depth of 13 feet (with the exception

* Plutarch, *Life of Alexander*, viii. Comp. p. 146.

of the few knives of silex), are met with here in great numbers at as small a depth as 6½ feet, that is, directly below the Temple of Athena; those most frequently found are clumsy hammers of diorite, but occasionally also hammers of the same or of green stone very prettily worked; some of them have a wide hole at both sides and a narrow one in the middle, and I cannot understand how a handle could have been fixed into them. The best finished instrument is always the wedge,* which is of diorite or of hard green stone, sometimes also of white silex, and occurs in all sizes from about ¾ of an inch to above 5 inches in length. This instrument is always of such exquisite workmanship and so well polished, that it is really astonishing how it was possible, with the miserable means at the disposal of those times, to make anything of such an excellent quality, for a modern artist with the best instruments could not possibly make better ones. The knives of silex, which I found last year in such great quantities, are as yet but rarely met with in this excavation. As stone implements do not occur elsewhere before reaching a depth of 4 meters (13 feet), it is probable that the numbers of stone implements met with here, as early as at a depth of 2 meters (6½ feet) on the site of the temple, belong to the

Of moulds of mica-schist I have only found two, one of which was used on all the six sides for casting weapons and instruments, the other for casting headless nails, and has two round holes, not perforated, for what purpose I do not know.*

While speaking of implements, I must mention a very remarkable hammer of bone, found at a depth of 3 meters (10 feet), which is covered with little engraved stars.

We again met with several marble idols, with the engraved owl's face of the Ilian Athena and her girdle with dots; also a very pretty marble idol without the owl's head, but with two small arms extended horizontally. The only terra-cottas with owls' heads that have been met with, since my last report, are two cups (vase-covers).

I find very many copper coins of Ilium and Alexandria Troas, and Roman ones from the time of Augustus to Constantine the Great, especially the latter, directly below the surface, and at most down to a meter (3¼ feet) deep. Iron I do not find at all, not even in the temple, but a number of copper nails, which, however, I begin to think could not have been used for driving into wood; for this purpose they seem to be far too long and thin. The usual length of the nails occurring below 6½ feet is from about 4 to above 6 inches, with a thickness of ⅕ of an inch, and I do not think that it would be possible to drive such a nail even into very soft wood. Besides this, most of the nails have no head at all, others two heads, and many have two pointed ends, one of which is bent round so as to form a head. Thick copper nails suitable for driving into wood are very rarely met with; I have only found two in two years. I am therefore induced to believe that all the nails which I find in the strata of the nations preceding the Greeks have been used only as dress or hair pins. This

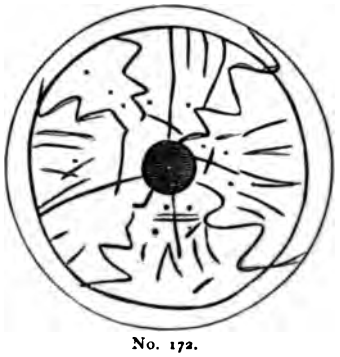
* An engraving of a similar mould, found on the Tower, is given in Chapter XVIII., No. 175, p. 261.

belief is confirmed by a copper nail, about 5 inches long, with a head of the usual form, and the fragment of a similar nail, which were found only 3 inches below the surface, in a small groove, which my men had made round their reed-hut to allow the rain-water to run off. On the head of the nail there is a small gold ball, and then there follows downwards on the nail a row of eighteen similar little gold balls. At the end of this row there is a second row of nine gold balls of like size. The rows of the little balls are in the form of necklaces, and cover a third part of the nail. The fragment of the other nail is still more remarkable, for it shows a string of little balls which form a perfect bow; they are made of the alloy which in antiquity was called *electrum* (ἤλεκτρον), consisting of three parts of gold and one part of silver; below the bow, in a horizontal direction, there is a row of little balls, which are probably intended to represent the string. The little balls are firmly soldered to both of the nails. In addition to this I must also mention that the silver nails so frequently met with are generally of the same form and size as the copper ones, and can certainly never have been used for driving into wood.

On the west side of the Great Tower, which I laid bare last year, I am likewise making an excavation 47 feet long

In the western excavation, already mentioned, I found the ruins of a very large house of the Greek period. It extended to the depth of 6½ feet, and must have belonged to a rich man, for the floors of the rooms are made of large red slabs splendidly polished. In it I found two small and very pretty female heads of terra-cotta, as well as two extremely remarkable pieces of hard brittle black stone, like glass, in the form of mushrooms, but with a tube running through the centre. The heads of the two pieces have decorations similar to those on the round terra-cottas in the form of humming-tops and volcanoes, and I therefore believe that both pieces belong to the pre-Hellenic period.

Below the foundations of the Greek house I found, at the depth of 3 and 4 meters (9¾ to 13 feet), many of the whorls with the usual decorations of four, five, or six double or treble rising suns; or four flaming altars; or four *Rosæ mysticæ;* or four or five 卐 in the circle around the central sun. I likewise found, at a depth of 10 feet, one of these articles, upon which there is a very rude and inartistic engraving of the Ilian Athena, with the owl's head and outstretched arms. By the side of this representation there are two crosses, and at the four ends of each are the marks of the nails with which our forefathers fastened the two pieces of wood which were laid crosswise for igniting the holy fire. In the same circle with the image of the goddess there are two symbols of lightning. A faithful drawing of this terra-cotta is given in the cut.



No. 172.
A Whorl with rude Symbols of the Owl's Face, Suastika, and lightning (3 M.).

Of the earthenware found in this excavation there is one piece especially deserving of attention. This is a vessel in the

form of a helmet, with a round hole at the bottom; it may have served as a kind of funnel.

As has been already said, the splendid block of triglyphs representing Phœbus Apollo with the four horses of the Sun, which I discovered last July, must, as the triglyph on the left side proves, have stood over the entrance of the temple, probably on its propylæa, and must have had another block of triglyphs of the same size on its right side. It would be of the greatest interest to archæology if I should find the second block of triglyphs, which, as happened with the other block, has probably been thrown from the summit of the hill down the steep declivity. I have also previously expressed the opinion, that the block of triglyphs which I saved had been thrown down by fanatical Turks because it represented living creatures, which is strictly prohibited in the Koran. However, the locality has not been inhabited at all since the ninth century, and the labourers of the distant Turkish villages cannot possibly have given themselves the trouble of rolling down from the hill such tremendous weights from mere religious zeal. Besides this, the good state in which the sculpture has been preserved proves that it cannot possibly have stood upon the top of the hill up to the

It is now quite certain that the Doric temple, which at one time stood on the north side, and in the depths of which I have so long been working, was the sanctuary of Apollo; and that the block of Doric triglyphs so frequently mentioned belonged to this temple of Apollo, and to none other; since Ilium's great temple, which I am now investigating, could only have been dedicated to the tutelary goddess of Ilium, Athena, for in the great inscription quoted in my last report it is simply called "*τὸ ἱερόν*."

In order to try to find the second block of triglyphs, I have since yesterday set 25 men to work upwards from the foot of the hill at the point where the Phœbus Apollo was found, over a breadth of 59 feet, to remove the *débris* which unfortunately I had thrown down the declivity last year, and which forms a covering of 23 feet in thickness; and then to dig away the whole steep side of the hill to a depth of 4½ feet from the bottom upwards.

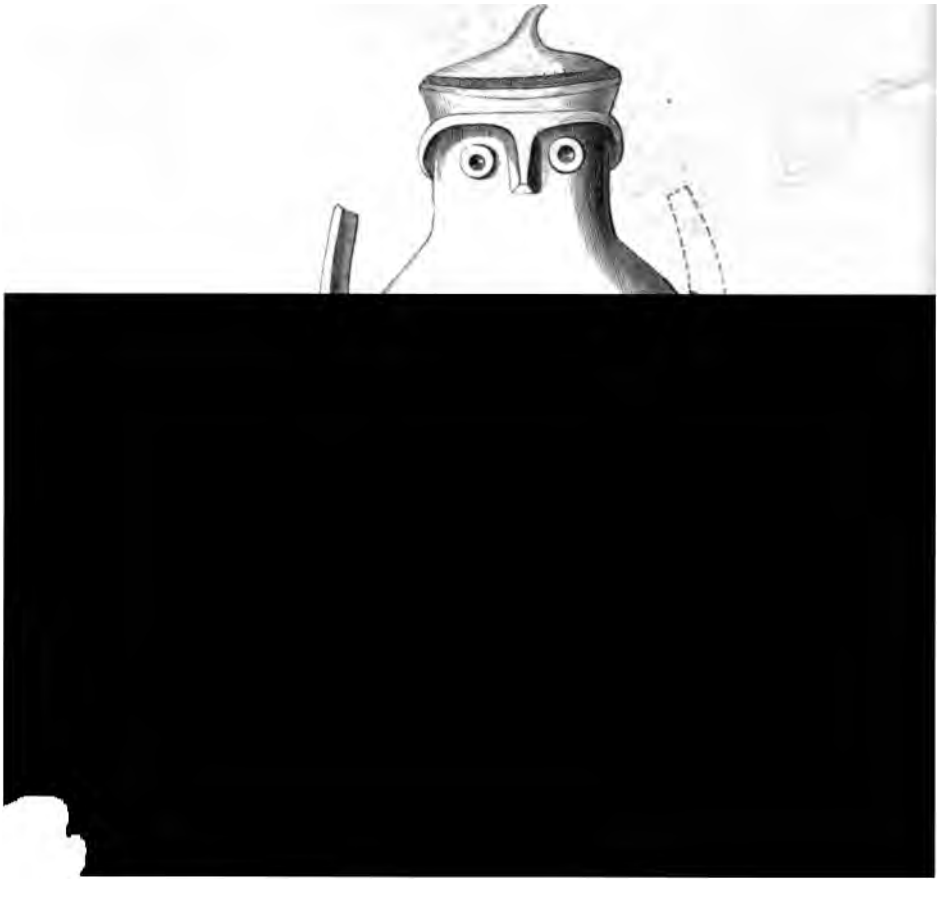
As soon as I have workmen to spare, I shall also employ thirty to make a deep cutting into the theatre, the stage of which, as already said, is 197 feet broad; this cutting I intend to make 33 feet broad and 148 feet long; for, in a small opening which I made there last year, I found a number of fragments of broken statues, and it is quite possible that some, which might be of the greatest interest to archæology, escaped the zeal of the early Christians.

The many thousands of stones which I bring out of the depths of Ilium have induced the inhabitants of the surrounding villages to erect buildings which might be called grand for the inhabitants of this wilderness. Among others, they are at present building with my Ilian stones a mosque and a minaret in the wretched Turkish village of Chiplak, and a church-tower in the Christian village of Yenishehr. A number of two-wheeled carts, drawn by oxen, are always standing by the side of my excavations,

ready to receive the stones which can be of any use as soon as they have been brought to the surface: but the religious zeal of these good people is not great enough for them to offer to help me in the terrible work of breaking the large, splendidly hewn blocks so as to make them more convenient to remove.

Although spring is only just commencing, there is already a great deal of malignant fever in consequence of the mild winter, and the poor people of the neighbourhood are already daily beginning to make large claims upon my stock of quinine.

I found myself obliged to raise the men's wages to 10 piasters or 2 francs, eight days ago.



UPPER PART OF THE BUILDINGS DISCOVERED IN THE DEPTHS OF THE TEMPLE OF ATHENA. Page 180.

CHAPTER XVIII.

Weather and progress of the work — The lion-headed handle of a sceptre — Lions formerly in the Troad — Various objects found — Pottery — Implements of stone and copper — Whorls — Balls curiously decorated — Fragments of musical instruments — Remains of house-walls — The storks of the Troad.

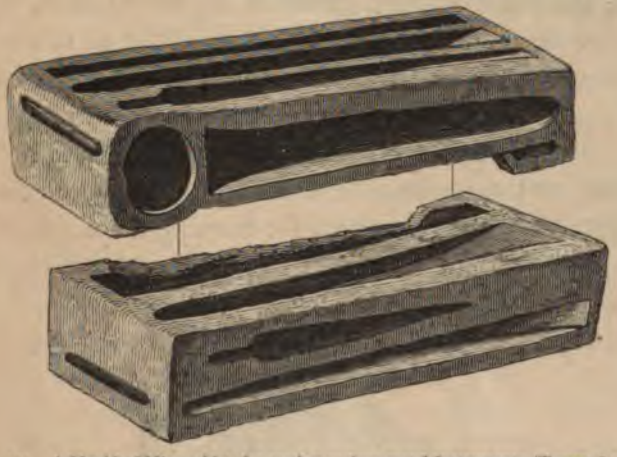
Pergamus of Troy, March 22nd, 1873.

DURING this last week we have again had constant splendid weather, and, with 150 men on an average, I have got through a good piece of work. On the north side of the excavation on the site of the Temple of Athena, I have already reached a depth of 26 feet, and have laid bare the Tower in several places. The space to be dug down is now divided into four terraces, and I am having the lowest terrace, which forms the surface of the Tower, worked with especially great energy. As the paths are getting both steeper and longer, the men with the wheel-barrows have now to stop and rest half-way, so the work proceeds more slowly every day. Still I hope that I shall bring to light the whole breadth of the Tower in the eastern direction in three weeks, but the western side in a week and a half. The only part of the interior of the Temple of Athena which I have left standing is the reservoir built of large white stones without cement, which, owing to my excavations, will in a few days be 26 feet above the Tower, and will have a very pretty appearance. It is only by excavating the west side of that part of the Great Tower which I uncovered last year, that I shall be able to judge in what direction the walls run out from it, and what my next work will be. The most remarkable of the objects

found this week is certainly a large knob belonging to a stick, of the purest and finest crystal, and in the form of a very beautifully wrought lion's head; it was discovered upon the Tower at a depth of 26 feet. It must have been the ornament of a Trojan's staff or sceptre (*σκῆπτρον*), for I found it among those brilliant red and black fragments of pottery, which only occur at a depth of from 36 to 46 feet, except upon the Tower. Not only this lion's head, but the illustrations drawn from the lion, which occur repeatedly in the Iliad, make it seem extremely probable that in remote antiquity lions existed in this neighbourhood. Homer could not possibly have described so excellently the characteristics of this animal, had he not had frequent opportunity of watching them, and his geographical knowledge of southern countries is too slight for us to suppose that he had visited them, and had there become intimately acquainted with the characteristics of the lion. Not far from the lion's head I found a splendidly cut hexagon of the purest crystal, as well as a small pyramid, 1½ inch long and broad, and 1⅞ inch high, made

No. 174.
A Lion-Headed Sceptre-handle of the finest crystal: found on the Tower (8 M.).

two horizontal lines on the neck, which are joined by small cross lines, seem to denote armour. Marble idols without the owl's face, but otherwise of exactly the same form as those with the owl's face, are met with in numbers in all the strata between 3 and 8 meters deep (10 to 26 feet). I likewise found long, thin copper nails with round heads at the thick end, or without heads, but with the end bent round, which I now perceive can only be breast or hair pins, and



No. 175. A Mould of Mica-schist, for casting various metal Instruments (Tower, 8 M.).

not actual nails for driving into wood. I find them also in quantities in the strata of this excavation between 4 and 7 meters deep (13 to 23 feet), and I must therefore decidedly pronounce that the people to whom these strata of ruins belong were acquainted with copper.

A strange instrument of copper, almost in the shape of a

No. 176. A curious Instrument of Copper (3 M.).

No. 177. A perforated and grooved piece of Mica-schist, probably for supporting a Spit. Found on the Tower (8 M.).

horse's bit, but with two pointed hooks, was found at a depth

of 10 feet. Besides this, we met with two somewhat crooked copper knives, at from 13 to 16½ feet down, as well as a small but very fine knife, in the form of a saw, made of a shell. Stone instruments are continually met with here in great numbers in all of the strata between 2 and 8 meters deep (6½ to 26 feet), whereas in my excavations of 1871 and 1872 I only found them below a depth of 13 feet. Two beautiful stone lances, one of diorite, the other of hard green stone, were found, the one at 20 feet down, the other at 11½ feet. During this week, I also found very many knives of silex in the form of saws or of sharp blades, with one or two edges; further, a very prettily cut piece of mica-schist with a perforated hole and a groove on the upper side, which may have been fastened to a fireplace and have served for turning a spit.

No 178. A large Terra-cotta Vase, with two large Handles and two small Handles or Rings (5 M.).

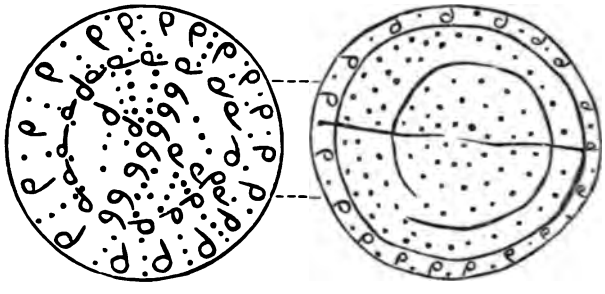
I have observed that the terra-cottas here generally

occur in great numbers only in and below those strata of *débris* which are mixed with enormous quantities of small shells, and which usually commence at a depth of 13 feet, but sometimes not till 20 feet. However, every now and then we come upon beautiful terra-cottas above these shell strata; and thus, for instance, in the great cutting, directly in front of my door, we found, at a depth of 10 feet, several large and splendid vessels, among which was an extremely elegant black vase, in the shape of a soup-tureen, and at a depth of 11½ feet two mixing-bowls, the smaller one of which has two, the larger one four, handles; the larger mixing-bowl is two feet high, and its orifice is as much in diameter. (See Cut, No. 41, p. 74.) At a depth of 16½ feet I found an extremely curious large vase, which has two large handles at the top and two small ones at the sides. Various other vases of extremely curious forms were discovered at a depth of from 13 to 26 feet; of them I will only mention one large brilliant black vase with two female breasts and two handles, by the side of which are the stumps of the upraised arms which ornamented this vessel. The upper part of it, which, as is proved by the arms and breasts, was ornamented with the owl's head of the Ilian Athena, is unfortunately wanting. It is strange that this vase has no navel.

Of the large and brilliant red goblets in the form of huge champagne-glasses, with two immense handles, we met with many in a more or less broken condition at a depth of from 6 to 8 meters (20 to 26 feet); among them is an enormous goblet 15¾ inches long, of which I have been able to collect all the fragments and shall therefore be able to restore it. (See No. 112, p. 158.)

I found, at a depth of from 23 to 26 feet, quantities of earthen plates, some of which are of a brilliant red colour, but most of them are uncoloured. At a depth of 20 feet I found a fragment of pottery with a cross, at the four ends of which are dots, which can only indicate the

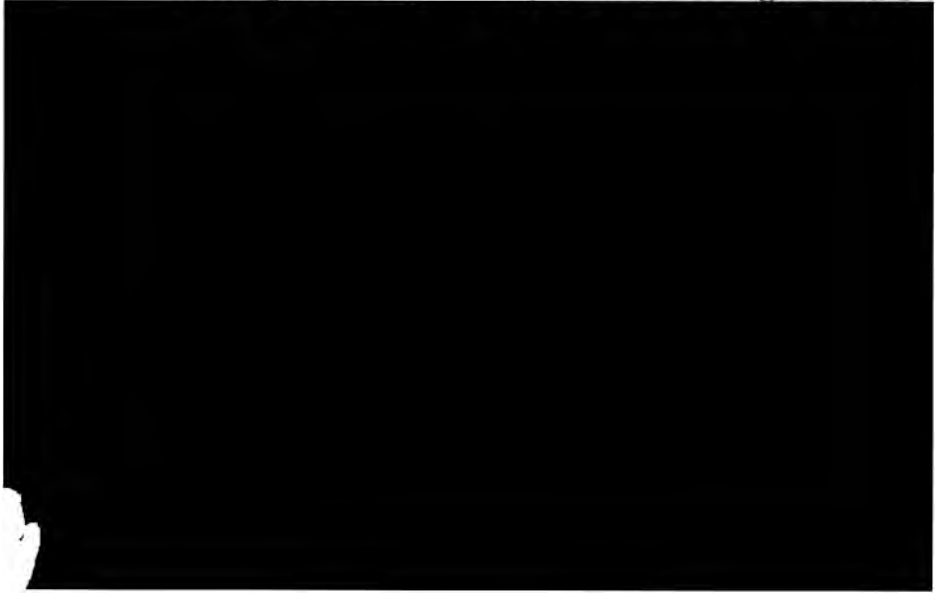
nails by means of which it was fastened. Small terra-cotta whorls, with Aryan religious symbols, were again found in great numbers; several of them have decorations not hitherto met with. Of terra-cotta balls we have found three during these last days, two of them are very remarkable. One hemisphere of the first has nineteen figures like the Greek letter Rho (P) in a circle round it, and ten of the same figures in a line through the middle point,



No. 179. A remarkable Terra-cotta Ball (6 M.).

also a number of little stars; the other hemisphere is entirely filled with little stars. The second ball has a half moon on the one hemisphere and large stars on the other.

Among the remarkable objects found during the week,



great cutting in front of my house, I have pierced through two such walls 6½ feet thick, which here formed the corner of a house, and which reach up to within a foot of the surface; they appear to extend pretty far down, and in my next letter I shall be able to give more details about them.

Although the Pergamus, whose depths I have been ransacking, borders directly upon the marshes formed by the Simoïs, in which there are always hundreds of storks, yet none of them ever settle down here. Upon one of my wooden houses and upon the stone one I had two comfortable nests made for them, but although there are sometimes twelve storks' nests upon one roof in some of the surrounding Turkish villages, yet none will settle on mine; it is probably too cold and stormy for the little storks on "Ἴλιος ἠνεμόεσσα."

No. 181. Knob for a Stick, of fine marble (3 M.).

No. 182. Bone handle of a Trojan's Staff or Sceptre, σκῆπτρον (7 M.).*

* A handle such as this, or as that shown at p. 260 (No. 174), seems well suited for the long *leaning-staff* (σκῆπτρον, from σκήπτομαι, "to lean upon") which, in Homer, is the symbol of royal authority, and with which Ulysses beat Thersites. (*Iliad*, II. 46, 265, *et passim.*)—[ED.]

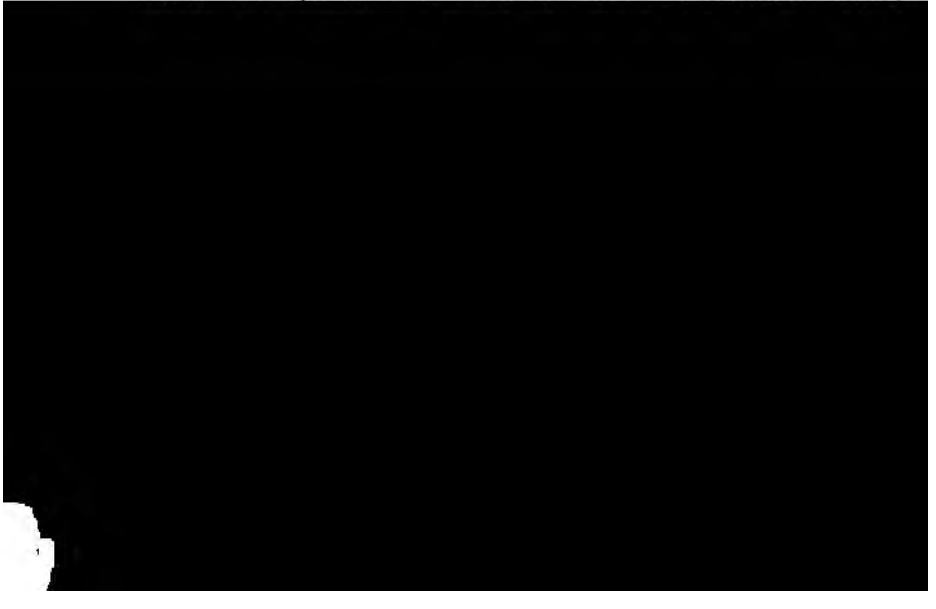
CHAPTER XIX.

Splendid vases found on the Tower — Other articles — Human skull, bones, and ashes, found in an urn — New types of whorls — Greek votive discs of diorite - Moulds of mica-schist -- The smaller quantity of copper than of stone implements explained — Discussion of the objection, that stone implements are not mentioned by Homer — Reply to Mr. Calvert's article — Flint knives found in the Acropolis of Athens— A narrow escape from fire.

Pergamus of Troy, March 29th, 1873.

SINCE my report of the 22nd of this month I have unfortunately made little or no progress, for most of the villagers are trimming their vineyards during this week; and besides this, we have been tormented by a horrible icy-cold high north wind, which yesterday and to-day rendered it impossible to carry on the works.

But in spite of this, during the week we have found at a depth of 8 meters (26 feet), and upon the Tower, a great number of splendid vases of the most remarkable form;



I can only mention a little plate of gold in the form of an arrow-head, with a small hole at the lower end (No. 186); an ivory tube with very curious decorations (No. 187); and a well-preserved skull with neat little teeth, which I discovered, together with a few bones and a quantity of human ashes, in a vase (unfortunately broken) 27½ inches high and broad, at a depth of 26 feet, upon the Tower. This is the first time that I have found such well-preserved

No. 183. A brilliant Black Vase, with the Symbols of the Ilian Athena, from the Tower (8 M.).

human bones and even a skull in an urn. Funereal urns, indeed, we dig out daily, but the bodies are always completely burnt to ashes; and, with the exception of the skeleton (already described) of an embryo found in a vase at a depth of 51 feet upon the primary rock, I have hitherto never found an entire bone in a funereal urn. The vase in which I found the skull is made of that excellent Trojan

terra-cotta which I find only at a depth of from 36 to 46 and 52½ feet, except upon the Tower; the skull must have belonged to a Trojan woman, for it is too delicate to have been the skull of a man. In the same urn I also found a copper hair or dress pin. Upon the Tower we also met with two marble idols without owls' faces, one of which is 6 inches long, the other 6⅓ inches. We likewise discovered quantities of terra-cotta whorls with symbolical decora-

No. 184. Vase-cover with Handle in shape of a Coronet (8 M.).

No. 185. Vase-cover with a Human Face: found on the Tower (8 M.).

No. 186. Flat piece of Gold, in the Form of an Arrow-head: from the Tower (8 M.).

No. 187. Prettily decorated Tube of Ivory. From the Tower (8 M.).

tions, twelve of which are of types not previously found. One is the form of a shirt stud,* 1⅓ inch high and 1⅕ inch broad, with the never-failing perforated hole and an engraved flower, the four petals of which form a cross round the central point; in three of the petals there

* See a similar example in Chapter XX., p. 286.

are very large dots, which may denote suns or moons; upon another, in the form of a top, there are six trees in the circle, the top and the foot of which are alternately directed to the central sun.*

I have already repeatedly mentioned the terra-cotta discs, between 1 and 2 inches in diameter, thick in the middle and cut smooth on one side, in the shape of a Greek lamp; they always have at one side two very small perforated holes, and frequently a round or oval potter's stamp, in which one can recognise either an altar and a bee with outspread wings, or a swan, an ox, a horse, a man, or something of the kind. I have also said that these discs must have belonged to the Greek colony, for I generally find them quite close to the surface as far down as 3½ feet and rarely below 6½ feet, and besides this the fine and almost microscopical figures in the stamp show a Greek style of art.† The small holes at the sides leave no doubt that the articles have been used as votive offerings to be hung up in the temples or beside the idols. These discs, which have hitherto only occurred in terra-cotta, I have this week found at a depth of 1 meter (3¼ feet), made of diorite with two holes on one side, which, however, are not perforated; owing to the hardness of the substance it was no doubt found difficult to make the two perforations.

During the last few days we have again found upon the Tower, at a depth of 8 meters (26 feet), a mould of mica-schist, 11 inches long, upon five sides of which there are forms for casting twelve lances, knives, and extremely curious implements, the use of which is a puzzle to me.

The many stone moulds for casting weapons, knives, and implements, which are met with here, sufficiently prove that Troy possessed a number of copper weapons, knives, and instruments. It is, however, quite natural that I should find comparatively few of them, for the copper implements

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* Plate XXXIV., No. 404. † See p. 65.

could of course easily be melted down and re-cast, and it must not even be supposed that I shall find any except those which were lost in the tumult of battle, or were preserved amidst the destruction of the city. Therefore the fact that I find immensely larger numbers of silex knives than of copper knives, and by far more axes and hammers of stone than of copper, by no means proves that at the time of the Trojan war there were more stone than copper instruments. Stone lances are, moreover, very rarely met with; this year I found only two of which I know positively that they are lances; the one was discovered at a depth of 11½ feet, the other at 20 feet deep.

Mr. Frank Calvert of the Dardanelles, who wishes to convince me by the hippopotamus which I found at a depth of 23 feet, that the *débris* at this depth belongs to a period when hippopotami inhabited the rivers of the Troad, has expressed the opinion, in his article in the *Levant Herald* of the 25th of January, 1873, that Homer would necessarily have mentioned stone knives and instruments if they had existed in Troy, and that, as he speaks of none, there could have been none; consequently, that none of the ruined strata which I have cut through, containing stone implements, can belong to the Homeric Troy, and that the

form of saws. I have here only once met with a saw of this kind 5 inches in length.

In Homer there is *not one* opportunity where such small saw-knives could have been mentioned, nor is it as yet altogether clear to me what they can have been used for.* Homer's heroes carry their copper knives beside their swords, and generally use them for killing the sacrificial animal, for which purpose, of course, flint knives from 1½ to 3 inches long would not have been appropriate; but those long copper knives, the size of which is accurately indicated by the stone moulds in which they were cast, would have been very suitable. In the Iliad (XVIII. 597), we see Hephæstus making youths with golden cutlasses upon the shield of Achilles.

Mr. Calvert believes that the fact of Homer's not mentioning either the small flint saws or stone knives is a proof against the identity of Hissarlik with the site of Troy. I, however, should find it surprising, and so assuredly would all scholars and admirers of Homer, if the Homeric heroes had appeared armed with silex saws from 1½ to 3 inches in length; for a hero, especially in an epic poem, can only carry and achieve something heroic. If the Homeric hero requires a stone weapon, he does not feel in his pocket for a silex saw from 1½ to 3 inches long, but he takes the first huge stone he meets with, such as two of the strongest men from among the people could not have raised from the earth on to a cart by means of levers; but the hero carries it in his hand with the same ease with which a shepherd would carry the fleece of a ram, and flings the rock with infinite force against the gate of the enemy, splinters the panels to shivers, and shatters the double hinges and the bars; the gate flies open, and the stone falls with a mighty crash into the hostile camp.†

* May they have been for flaying the sacrificed animals, a sharp flint being better for this purpose than a copper knife, and perhaps also being preferred to metal as less contaminated by human labour?—[Ed.]

† *Iliad*, XII. 445-462.

Upon another occasion, another hero uses a stone weapon. He, too, does not look for a small silex saw, but takes an immense block of stone, which two men from among the people would have been unable to lift, and hurls it against his opponent.* Mr. Calvert's excavations in the Pergamus were confined to two small cuttings which still exist, and he is wrong in saying that I have continued his excavations. As my plans of the Pergamus prove, my excavations of 1870, 1871, and up to the middle of June, 1872, were made exclusively on the Turkish portion of the Pergamus; and it was only in June that I began to excavate the site of the temple of Apollo upon Mr. Calvert's land, because a depression in the ground, 111½ feet long and 75½ feet broad, had betrayed the site to me. My friend's two small cuttings by no means gave any idea of the existence of such a temple.

I have never, as Mr. Calvert says, found the native rock at a depth of 67 feet. I found it at a depth of 16 meters (or 52¾ feet) upon my large platform, and at a depth of 14 meters (or 46⅕ feet) in my great cutting, in the Roman well, and upon the south side of the Tower. In Mr. Calvert's field, however, I found the primary soil only in the hill covered by the very ancient buttress, which has

cylinders, grinding-mills, and masses of shells, immediately below these ruins, is incorrect; for in not one of my excavations have I hitherto found these things at less than 4 meters (13 feet) deep, and if I now find them immediately below the foundations of the Temple of Athena, I explain this by assuming that the *débris* which was dug out of the great excavation for the reservoir of the temple was used for increasing the elevation of the site of the sanctuary. Mr. Calvert is also wrong in his statement that the larger bones were all broken to get at the marrow; on the contrary, we very rarely meet with broken bones. He is again incorrect in stating that I find small articles of bronze, as well as ornaments in gold and silver filigree work. I have never as yet found bronze here, but in all cases copper; and never have I found ornaments of gold or silver filigree work. The ornaments represented in the drawings are of pure gold, or electrum, or silver, or copper. His statement is also erroneous, that I occasionally find engraved representations of fish-bones upon vessels. It is true that I often find vessels round which rows of cuneiform decorations are engraved; but these are never connected with one another, and therefore have no resemblance at all to fish-bones. Further, Mr. Calvert is mistaken in his assertion that in the depths of this hill there are house-walls composed of unhewn stones laid roughly one on the top of the other. The architect is not yet born, who could construct house-walls of such stones without some kind of cement. The walls of clay do not, as Mr. Calvert's statement would lead one to believe, consist of *one* mass of clay, but of sun-dried bricks; and I assure my readers that I have never yet, as Mr. Calvert erroneously maintains, found the impressions of long rushes, which indicate the use of thatch-work. My learned friend is also completely wrong in his statement that the floors of some of the houses have been glazed, and that the regularity of the levellings

and the flatness of these floors prove that the glaze is not the result of accident; further, that one of these glazed floors has a length of 20 feet. I would give a great deal if this were true, for such a Trojan marvel would attract thousands desirous of information. Unfortunately, however, such glazed floors exist only in Mr. Calvert's own imagination. My friend is as completely mistaken in his reports about the Great Tower, which he describes as consisting of two walls, which meet at a sharp angle and diverge to a distance of 40 feet, the space between them being as yet unexplored. It is only the southern wall of this building that rises at an angle of 75 degrees: on the north side, as it was sufficiently supported by the mound 65½ feet broad which rested against it, it had above it only a small perpendicular wall, 3¼ feet high and broad; whereas the southern wall, which inclines at an angle of 15 degrees, is 6½ feet thick. The whole of the inner space between the two walls consists of stones laid loosely upon one another. The perpendicular height of the Tower above the primary rock is not 15 feet, as Mr. Calvert says, but exactly 20 feet. The terra-cotta discs with two small holes, which, according to Mr. Calvert, I find here at all depths, I have in reality always found only close

instance, found in numbers in the Acropolis of Athens, and they appear to have been used up to a very late period. A rude pre-historic people could by no means have made the beautiful terra-cottas which are found here immediately below the ruins of the Greek colony, and still less could they have manufactured the splendid pottery which shows such a high degree of artistic taste, and which I meet with here at a great depth.

The life in this wilderness is not without danger, and last night, for instance, my wife and I and the foreman Photidas had the narrowest escape of being burnt alive. In the bedroom on the north side of the wooden house which we are inhabiting, we had had a small fireplace made, and, owing to the terrible cold which has again set in during the last six days, we have lighted a fire in it daily. But the stones of the fireplace rest merely upon the boards of the floor, and, whether it was owing to a crevice in the cement joining the stones, or by some other means, the floor took fire, and when I accidentally awoke this morning at 3 o'clock, it was burning over a space of two yards long by a yard broad. The room was filled with dense smoke, and the north wall was just beginning to catch fire; a few seconds would have sufficed to burn a hole into it, and the whole house would then have been in flames in less than a minute, for a fearful north wind was blowing from that side. In my fright I did not lose my presence of mind. I poured the contents of a bath upon the burning north wall, and thus in a moment stopped the fire in that direction. Our cries awoke Photidas, who was asleep in the adjoining room, and he called the other foremen from the stone house to our assistance. In the greatest haste they fetched hammers, iron levers and pickaxes; the floor was broken up, torn to pieces, and quantities of damp earth thrown upon it, for we had no water. But, as the lower beams were burning in many places, a quarter of an hour elapsed before we got the fire under and all danger was at an end.

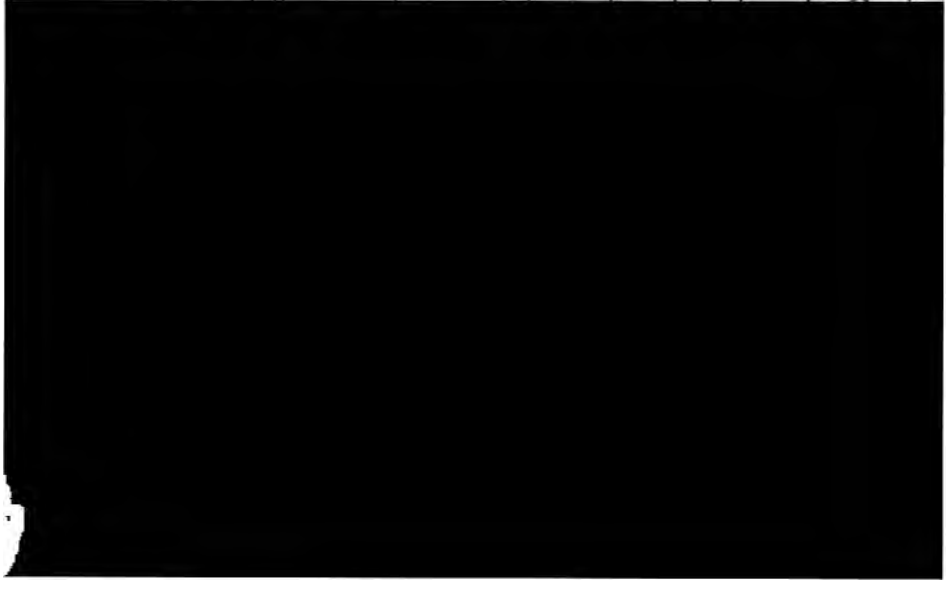
CHAPTER XX.

Discovery of a large house upon the Tower -- Marks of a great conflagration – Primitive Altar : its very remarkable position — Ruins of the Temple of Athena — A small cellar -- Skeletons of warriors with copper helmets and a lance — Structure of the helmet-crests — Terra-cottas — A crucible with copper still in it — Other objects — Extreme fineness of the engravings on the whorls — Pottery — Stone implements — Copper pins and other objects.

Pergamus of Troy, April 5th, 1873.

AMIDST cold but glorious spring weather most favourable for the workmen, who now number 150 on the average, I have this week continued the excavations with the greatest energy and with good results.

The most interesting object that I have discovered here in these three years is certainly a house which I brought to light this week, and of which eight rooms have already been laid open; it stands upon the Great Tower, at a depth



as yet found an actual floor of unhewn slabs of limestone, the smooth sides of which are turned outside. Black marks, the result of fire, upon the lower portion of the walls of the other rooms which have as yet been excavated, leave no doubt that their floors were of wood, and were destroyed by fire. In one room there is a wall in the form of a semicircle, which has been burnt as black as coal. All the rooms as yet laid open, and not resting directly upon the Tower, have been excavated down to the same level; and I find, without exception, that the *débris* below them consists of red or yellow ashes and burnt ruins. Above these, even in the rooms themselves, I found nothing but either red or yellow wood-ashes, mixed with bricks that had been dried in the sun and subsequently burnt by the conflagration, or black *débris*, the remains of furniture, mixed with masses of small shells: in proof of this there are the many remains which are still hanging on the walls. In several rooms I found red jars (*πίθοι*) from 7 to 8 feet high, some of which I leave *in situ*. Above the house, and as far as the foundations of the temple, I found nothing but red and yellow wood-ashes. (See Plate X., opposite p. 287.)

To the east side of the house is a sacrificial Altar of a very primitive description, which is turned to the north-west by west, and consists of a slab of slate granite about 5¼ feet long, and 5½ feet broad. The upper part of the stone is cut into the form of a crescent, probably for killing upon it the animal which was intended for sacrifice. About 4 feet below the sacrificial altar I found a channel made of slabs of green slate, which probably served to carry off the blood. Strangely enough this Altar does not stand on the Tower itself, but 3¼ feet above it, upon bricks or lumps of earth which had been dried in the sun, and which have been actually burnt by the conflagration, but nevertheless have no stability. The altar was surrounded by an enormous quantity of

the remains of bricks of this description, as well as by red and yellow wood-ashes, to a height of 10 feet. Of course I leave the altar *in situ*, so that visitors to the Troad may convince themselves by the nature of its pedestal and of the *débris* of the earthen wall, beside which it stands, of the correctness of all these statements, which might otherwise appear too incredible. The remarkable sub-

No. 188. Great Altar for Sacrifices, found in the depths of the Temple of Athena ($\frac{1}{25}$ of the real size).

structure of this sacrificial altar, the curious *débris* in which it was buried, the preservation of the great house, which has evidently been burnt, and the walls of which were built at different epochs, and lastly, the fact that its spaces were filled with heterogeneous *débris* and with colossal jars—all this is a puzzle to me. I confine myself, therefore, to stating the facts merely, and refrain from expressing any kind of conjecture.

Above the house, in the south-western wall of this excavation, are the ruins of the southern wall of the Temple of Athena. They are 5¼ feet high, and consist of large white

blocks of limestone. Their great breadth gives them an imposing appearance, and this is further increased by the great reservoir of the temple, the walls of which are directly to the east of the altar, and 4¼ feet high. Above the very ancient house, and below the southern wall of the temple, may be seen the ruins of a small round cellar, 3½ feet in diameter and about 2½ feet high, which stands below the foundations, and must, therefore, be older than the temple. It is built of chalk and stones, but the inner side has been painted over with a kind of varnish or glaze, and has a glossy appearance. This small cellar was filled with fragments of Greek terra-cottas, among which, however, I found six small vases, almost uninjured.

This very ancient house, with its small rooms, as it stands, is very like a Pompeian house; it cannot, indeed, be at all compared with the houses of Pompeii in regard to architecture or decoration, but it surpasses them in peculiarity.

No. 189. Copper Lance of a Trojan Warrior, found beside his Skeleton (7 M.).

By the side of the house, as well as in its larger apartments, I have found great quantities of human bones, but as yet only *two entire skeletons*, which must be those of *warriors*, for they were found at a depth of 7 meters (23 feet), with *copper helmets upon their heads*. Beside one of the skeletons I found *a large lance*, a drawing of which I give. The one skull is uninjured, and I add a faithful drawing of it; the other is somewhat broken, but I hope soon to have the pieces joined with cement. Both of the skulls are large, but remarkably narrow. Unfortunately both helmets were broken; however, I hope to be able to put one of the two together when I return to Athens.

The upper portions of both helmets have, however, been well preserved; and these parts form the "φάλος," or

No. 190. Skull of a Trojan Warrior, belonging to one of the two Skeletons found in the House on the Tower (7 M.). It is long, but narrow.

No. 191. (*a*) The upper and (*b*) lower pieces of a Trojan Helmet-crest (φάλος) placed together. (*c*.) A small piece of the Helmet remains adhering to the lower part of the Crest (7 M.). A pin, fastened to the front of the part (*b*), goes into the hollow base of (*a*), and supports it. (See the figures on p. 334.)

ridge, in which the "λόφος ἵππουρις," or horse-hair plume, so frequently mentioned in the Iliad, was fixed."* In both

* Homer's *Iliad*, III. 362; IV. 459; VI. 9; XIII. 132; XVI. 216.

cases the φάλος consists of two pieces. The large copper ring found beside the helmet had been attached to it, in what manner I do not know. Two days later, when I found the second helmet, I perceived from the manner in which the lower portion was fixed to the helmet that the pieces must be put together as shown in the drawing. Through the lower portion of each helmet runs a copper nail, which has a round head and its other end simply bent round. As to the place into which the λόφος ἵππουρις was inserted and fixed there can be no doubt, for the opening at the top of the ridge can have served no other purpose. By the side of the second helmet also, I found the fragment of a copper ring similar to that found beside the first helmet.*

No. 192. Great Copper Ring, found near the Helmet-crest (7 M.).

In some of the rooms I found no terra-cottas at all, but in others enormous quantities of splendid black, red, and brown vases, pots, and jars of all sizes, and of most

* Few coincidences have struck us more than the comparison of these helmet-crests with the frequent allusions in Homer, especially where "Hector of the dancing helmet-crest" (κορυθαίολος Ἕκτωρ), takes off the helmet that frightened his child (*Iliad*, VI. 469, foll.) :—

Ταρβήσας χαλκόν τε ἰδὲ λόφον ἱππιοχαίτην
Δεινὸν ἀπ' ἀκροτάτης κόρυθος νεύοντα νοήσας.

"Scared by the brazen helm and horse-hair plume,
That nodded, fearful, on the warrior's crest."

No such plumed helmets are found among the remains of "prehistoric" barbarous races. The skeletons, with the helmets and lances beside them, bear striking witness to a city taken by storm. In Homer, the Trojans under the command of "the crested Hector" are "valiant with lances" (μεμαότες ἐγχείῃσιν, *Iliad*, II. 816-818).—[ED.]

fanciful shapes; but unfortunately in hewing down the hard *débris* most of them were broken, and I shall not be able

No. 193. An elegant bright-red Vase of Terra-cotta, decorated with branches and signs of lightning, with holes in the handles and lips, for cords to hang it up by. Found on the Tower (8 M.).

No. 194. Terra-cotta Vase. Found on the Tower (8 M.).

to have them repaired till I return to Athens. I wish to draw attention to the elegance of the red jars with necks

bent back, two ears, and three breasts; as well as to the black or red vases ornamented with engraved branches of trees, with three feet and two small and two large upraised handles as arms; also to the terra-cotta goblets, which are occasionally the form of champagne-glasses, sometimes also in the shape of a soup-tureen with two handles.

The most interesting of the terra-cottas found this week, and the most important to archæology, are these:—the beautiful red vase-cover with the owl's face and helmet of the Ilian Athena, which was found in a large red urn at a depth of 8 meters (27 feet):—then two vases, likewise adorned with the owl's head of the tutelary goddess of Troy, but also with two breasts, a large navel, and two upraised arms. One of these vases was found upon the Tower, the other above it, at a depth of 4 meters (13 feet).

No. 195. Profile of a Vase-cover, with the Owl's Face and Helmet of Athena, in brilliant red Terra-cotta. Found in an urn on the Tower (8 M.).

No. 196. An Earthenware Crucible on four feet, *still containing some copper*. Found on the Tower (7 M.).

Among the other very remarkable terra-cottas found in one of the rooms of the subterranean house, at a depth of 7 meters (23 feet), there is a crucible with four feet, in which some copper is still to be seen; also a small brilliant black funnel. I also

found in the house, at the depth of 7 and 8 meters (23 to 26 feet), several idols of ordinary stone or of marble; one also of bone, upon which are seen the two arms of the goddess; it is only upon one of the marble idols, and upon one of those of stone, that I find the two eyes. This week we met with only one idol of ordinary stone with a rude engraving of the owl's face; it was discovered at a depth of 4 meters (13 feet). I must remark that the idols of common stone are always very roughly made.

Of the small terra-cotta whorls, both with and without symbolical engravings, we this week again met with 251 pieces; of these, however, only 31 had symbolical figures which I have not yet found. Several of the engraved decorations on these articles have been executed with a fineness which is truly astonishing, and more especially those which are engraved upon brilliantly black wheel-shaped pieces: they are so fine that I could only distinguish them through a magnifying glass.

At a depth of 6 and 8 meters (20 to 26 feet) we again met with very many ordinary plates, which had been turned on a potter's wheel. At the same depth, and in the above-mentioned house, we found a curious vessel,

moulds for casting weapons and instruments. At a depth of from 10 to 26 feet we also discovered 27 small silex knives like saws, and six very pretty knife-blades made of black obsidian, which are sharp enough to serve as razors. We have found no copper knives this week, but, on the other hand, four copper dress or hair pins, from $2\frac{1}{3}$ to above 5 inches long; also thirteen needles for knitting or embroidering; likewise sixteen large bodkins made of stag-horn, and a number of pointed boars' tusks. Among the stone implements found during the week, there are two very pretty hammers of diorite and a very neat perforated prop of mica-schist with a small furrow at the top, for turning a spit, and other such things. (See No. 177, p. 261.)

In returning to the terra-cottas I must mention a square article, the upper part of which gradually becomes narrower and thinner: on the front side there are two small depressions in the form of eyes, and on one side it is perforated. I add a drawing of this curious article, the use of which is

No. 198. A piece of Terra-cotta, with two holes slightly sunk in front like eyes, and a hole perforated from side to side (8 M.).

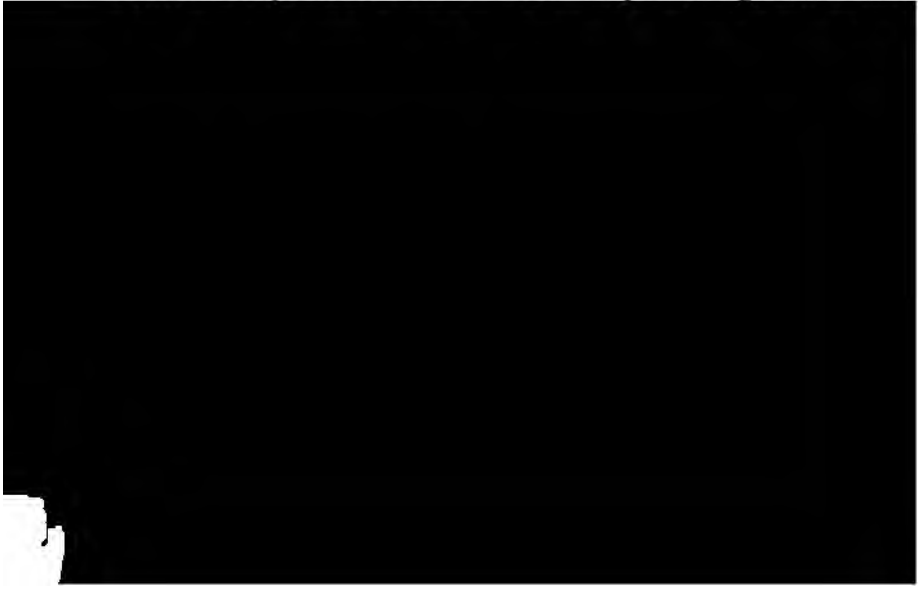
No. 199. A remarkable Terra-cotta Vessel on three long feet, with a handle and two small ears (7 M.).

quite unknown to me. I may mention further a curious pot found in the house, at a depth of 7 meters (23 feet),

with three feet, two small ears, and one handle; also those neat cups with one handle and three feet, which are repeatedly met with in the same house. At a depth of 3 meters (10 feet) we discovered a bright red polished little box, from the under side of which two small perforated rings project. The pattern on the bottom represents the sun with its rays; in the centre of the sun's disc is a cross, which ends in four small circles, and these are probably intended to represent the heads of the nails which fastened the two crossed staves employed to produce the holy fire. In every one of the four spaces formed by the cross there is a 卐, one of which is represented by dots.

No. 200. A beautiful bright-red Terra-cotta Box (or Vase-cover?), decorated with a + four 卐, and a halo of solar rays (3 M.).

We also again met with one of those small perforated terra-cottas, consisting of two connected balls, and which somewhat resemble our shirt-studs; the upper part of the article in question shows three simple rising suns and



THE TOWER OF ILIUM, SCÆAN GATE, AND PALACE OF PRIAM.

Page 287.

CHAPTER XXI.

Discovery of a street in the Pergamus — Three curious stone walls of different periods — Successive fortifications of the hill — Remains of ancient houses under the Temple of Athena, that have suffered a great conflagration — Older house-walls below these, and a wall of fortification — Store, with the nine colossal jars — The great Altar — Objects found east of the Tower — Pottery with Egyptian hieroglyphics — Greek and other terra-cottas, &c. — Remarkable owl vase — Handle, with an ox-head — Various very curious objects — A statue of one Metrodorus by Pytheas of Argos, with an inscription — Another Greek inscription, in honour of C. Claudius Nero.

Pergamus of Troy, April 16th, 1873.

SINCE my report of the 5th of this month I have had, on an average, 160 workmen, and have brought many wonderful things to light, among which I may especially mention a street of the Pergamus, which was discovered close to my house, at a depth of 30 feet, in the Great Tower. It is 17¼ feet broad, and is paved with stone flags, from 4¼ to 5 feet long, and from 35 inches to 4½ feet broad. It runs down very abruptly in a due south-western direction towards the Plain. I have as yet only been able to lay bare a length of 10 meters (33⅓ feet). It leads, without doubt, to the Scæan Gate, the position of which appears to be accurately indicated, on the west side at the foot of the hill, by the direction of the wall and by the formation of the ground; it cannot be more than 492 feet distant from the Tower. To the right and left of the street there is an enclosure 28½ inches broad and 11 feet long. The slope of the street is so great that, while on the north-east side, as far as it is there uncovered, it is only 30 feet below the

surface of the hill, yet at a distance of 33 feet it already lies as low as 37 feet.*

This beautifully paved street leads me to conjecture that a grand building must at one time have stood at the top of it, at a short distance on the north-east side; and therefore, seven days ago, when the street was discovered, I immediately set 100 men to dig down the north-eastern ground lying in front of it; this cutting I have made 78½ feet long, 78½ feet broad, and 33 feet deep. The removal of these 7600 cubic yards of huge masses of hard *débris* and stones is rendered much easier by the fact that it joins my last year's great cutting, which runs quite horizontally from the northern declivity as far as the Tower, and is therefore very well adapted for the use of man-carts. In order to extract from this excavation all the objects of the greatest use to archæology, I am having the walls made perpendicular, as in fact I have had them made in almost all of the other cuttings. As the work of removing this gigantic block of earth is carried on both from above and from below, I confidently hope to have finished it in twenty days' work.

In this great bank of earth there are three curious walls built one above another of small stones joined with

this wall there is a stratum of earth 11½ inches thick; and then comes the second wall, projecting about 11½ inches, and 6½ feet high; and this again rests upon another and much older wall. The last runs in an oblique line in a south-western direction parallel with the Tower-road, and furnishes a second proof that the surface of the hill, which is now quite horizontal here, did not slope down very abruptly towards the Plain at this part.

Thus the opinion which I have previously expressed, that only the first inhabitants of this hill had walls and fortifications, is now proved to be erroneous. For these three walls, which at one time stood at the edge of the declivity, and the three which I cut through at the south-east side of the hill, can only have been walls of fortification, and they evidently belong to the various tribes who inhabited this locality after the destruction of the first nation up to the foundation of the Greek colony.

As my further excavations have shown, at a depth of 8 meters (26 feet), immediately below the Temple of Athena, and at a distance of 131 feet from the above-mentioned street, a large wall runs out from the Tower in a southern direction. I have had 6½ feet of this wall laid bare to the south. But how far it extends in this direction cannot be ascertained without making new and enormous excavations. It is also impossible for me to ascertain its breadth without breaking down the curious pre-Hellenic house. It also appears to me that the Tower ends here, for in my investigations at the foot of that ancient house I no longer found any trace of it. Instead of it I came upon very ancient houses, the walls of which, still partially covered with a coating of clay and white colour, all bearing traces of a terrible conflagration, which has so completely destroyed everything that was in the rooms, that we only occasionally find charred fragments of pottery among the red wood-ashes with which the spaces are filled. Curiously enough we again find, below these very ancient houses, other

house-walls which must certainly be older; and these too show indications of having been exposed to a terrible heat. In fact, the labyrinth of very ancient house-walls, built one above another, and found in the depths of the Temple of Athena erected by Lysimachus, is unique, and presents the archæologist with the richest materials for his investigations. But what is most inexplicable to me about this labyrinth of walls is a wall of fortification, 11¾ feet high, running through it from W.N.W. to E.S.E. This is likewise built of stone joined with earth, and is 6 feet broad at the top and 12 feet broad at the foot: it does not stand directly upon the primary rock, and was not built till the rock had gradually become covered with a layer of earth 1¾ foot in thickness. It appears therefore to be somewhat less ancient than the Great Tower, which stands directly upon the primary rock. Running parallel with this wall of fortification, only 2½ feet from it and at the same depth, there is a wall 2 feet high, which is likewise built of stones joined with earth.

The room at the greatest depth which I have excavated is 10 feet high and 11¼ feet broad; but it may have been higher; its length I have not yet ascertained. One of the compartments of the uppermost houses, below the Temple

A.—THE EXCAVATIONS IN THE TEMPLE OF ATHENA.

From the East.

B.—THE MAGAZINE, WITH ITS COLOSSAL JARS, *Page* 290.

In the depths of the Temple of Athena.

burnt bricks through the conflagration. This wall, which likewise appears to me to be a fortification and very thick, I have had broken down to the perpendicular line of the foundations of the Temple of Athena.

I am in great fear lest the Turks should make off with the large stone altar, the upper part of which forms a crescent, to use it for building a minaret in the village of Chiplak; therefore, without moving it from its place, I shall have it carefully split in two, so that it will be useless for building purposes. This stone and its pedestal are daubed over with a white crust of clay, which upon the pedestal is nearly an inch thick.

I have continued the excavation on the south-east side of the Pergamus, and I have found that the great wall, which I regarded as a continuation of the Tower, is part of a very ancient and large wall of enclosure.

Since my last report we have not found any kind of interesting antiquities worth mentioning on the whole of the east side of the Tower; but in the large new excavation to the north-east of the Tower-road we have discovered a great quantity of exceedingly curious articles. The ruins of the Greek colony here extend exactly to a depth of 6½ feet, and there I found a fragment of pottery with painted Egyptian hieroglyphics, of which I give a drawing. Three other pieces of pottery were found at a depth of 10 feet. One of these represents an owl's face, a 卐 and the impressions of the four nails for fixing it; the second fragment has a 卐 in which each of the four ends again terminates in a square; the third fragment represents a wheel in a state of rotation. At a depth of 6½ feet we also came upon a terra-cotta idol with the owl's face and the upraised arms, which are broken off, but appear to have been longer. This

No. 203. Fragment of a Terra-cotta Vase, with Egyptian hieroglyphics, from the bottom of the Greek Stratum (2 M.).

idol, like all the others, has a human figure: the owl's beak and eyes project from the head and have been carefully wrought; there are indications of hair on the forehead, and two lines on the neck seem to denote armour. At the same depth I found the bottom of a dish, upon which there is a representation in high relief of two youths embracing and kissing each other; this is a most masterly piece of work. At a depth of 5 feet we found the upper portion of a vase with a pretty owl's head; the rim of the mouth forms a kind of helmet. A little deeper than a foot we met with a good-looking head of a man in terra-cotta; at 2 meters (6½ feet) down, a Greek lamp with a foot 2¾ inches long, and at the same depth some very pretty vases and jugs, and a terra-cotta flattened on one side, with two perforated holes and a stamp, in which there is a very pretty picture of the head and shoulders of a woman. At a depth of 3 and 4 meters (10 and 13 feet) were twelve marble idols without owls' faces; upon one of these idols there are four horizontal lines on the neck; further, at a depth of 10 feet, a fragment of a serpent with two horns;

same depth, a quantity of beautiful terra-cotta vases and jugs, prettily ornamented, ivory needles for knitting or embroidering, and a very neat perforated terra-cotta cylinder 1¼ inch long, covered with engraved symbolical

No. 206. Terra-cotta Cylinder, 1¼ in. long, with Symbolical Signs (5 M.).

signs. But the most curious article, found at a depth of 5 meters (16½ feet), is an idol of the Ilian Athena with an owl's head, which is rounded off in front and at the back; the eyes are very large and beautiful, but the beak is small and roughly made; on the neck there is a cross line, and above it ten upright lines, which are probably intended to denote armour; the whole of the rest of the body is covered with lines, in which, more especially on the back, the bird's feathers are unmistakable; and there is a peculiar ornament on the abdomen. This idol, like all the others, has a human figure.*

At a depth of 6 meters (20 feet) I found two splendid brilliant red vases with representations of the Ilian Athena with the owl's head, a kind of helmet, two upraised arms, two breasts, and the large circular prominent elevation on the abdomen.† At the same depth I found an idol of the usual form, made of bone; and upon a handle of black terra-cotta, which has probably belonged to a large cup, the head of an ox, executed in high relief with great skill;‡ this involuntarily reminds one of Homer's Βοῶπις πότνια Ἥρη ("Our Lady Hera, with the head [or eyes] of a cow"). Among many other remarkable terra-cotta vessels, at this depth, I also found a small but really splendidly ornamented vase, the surface of which is divided into fourteen alter-

* See No. 29, p. 36. † No. 207, p. 294.

‡ No. 208, pp. 294. Respecting such an impersonation of the goddess Hera, see pp. 113, 114, 353.

nate compartments, larger and smaller.* In each of the larger compartments there are three circles of little stars and a star in the centre; in each of the smaller compartments there are triple zigzag lines; this vase has little holes in the small handles for hanging it up by a string. Among the other curious articles from this depth there is a silex saw, 4 inches long and $1\frac{3}{4}$ inch broad, also one of those round, twice perforated terra-cottas flattened on one side and with a large stamp which represents a swan and an antelope. A similar terra-cotta, the stamp upon which represents the head of a warrior with a helmet, was found at a depth of 8 meters (26 feet). These two are the first terra-cottas of

No. 207. Terra-cotta Vase with helmeted image of the Ilian Athena (6 M.).

No. 208. Fragment of a large Cup-handle in black Terra-cotta; head that of an Ox (6 M.).

No. 209. A finely decorated little Vase of Terra-cotta (6 M.).

* No. 209, on this page.

ind which I have hitherto discovered below a depth
neters (6½ feet).

o. Terra-cotta Disc stamped with a Swan and an Antelope (6 M.). Remarkable for the depth.

No. 211. Terra-cotta Disc pierced with two holes, and stamped with the Head of a Warrior. Remarkable for the depth (8 M.).

a depth of 7 meters (23 feet) I found a tripod with a projecting owl's face, also a red terra-cotta cup (cover) with the owl's f the Ilian Athena and her helmet; a knife long copper instrument; a piece of bone hes long, ornamented with very artistically red symbolical signs, and among other lingly curious terra-cottas, the handle of a ith a cross and the marks of the four or fixing it; further, a fragment the upper n of a large urn, which is ornamented with encircling stripes: the upper and lower consist of peculiarly interwoven crooked the middle one contains small circles, in f which is a cross.

No. 212. A piece of Bone, curiously engraved (7 M.).

a depth of 8 meters (26 feet) we discovered a idol with the owl's head of the tutelary goddess m, and a brilliant red terra-cotta idol of the same s, which, curiously enough, has on its head a small, ry pretty vase with two handles; the owl's face of st-mentioned idol has enormous eyes, and is very sive. Of terra-cotta vases and dishes we found an lly large number in these depths. I can, however, ive drawings of a few of them, for most were brought a broken condition, and I cannot have them re-

paired till I return to Athens. Of those terra-cottas which were got out unharmed, a small vase with two holes in the mouth, for being hung up by a cord, is especially deserving of attention; it is surrounded by figures in the shape of hearts with crosses; then saucer-shaped pots with large handles: other little pots in the form of salt-cellars, and several vases round at the bottom with three feet or without feet: terra-cotta scoops in the form of cups with large handles; then a large terra-cotta lid with a handle; it is of a very curious shape, and weighs 730 grammes. We also found several implements of copper.

No. 213. Fragment of a Trojan Idol of bright-red Terra-cotta (6 M.).

At a depth of 9 meters (29½ feet) we found a copper lance and a dozen very large vases, brown and black.

Nos. 214, 215. Terra-cotta Cups or Scoops (7 M.).

No. 216. Vase Cover in Terra-cotta (8 M.).

At the same depth I found a pretty brilliant brown cup in the form of a flower-pot, with two large handles. At a depth of 26 and 29½ feet I have found, since the 5th of the month, eleven beautiful sling-bullets of loadstone and

two of porphyry. We met with very few stone implements, only two beautiful axes of diorite, at the depths of 29½ and 33 feet. At the latter depth I again found one of the brush-handles of terra-cotta, which are often found, and some vases with three feet and rings at the sides for hanging them up.

No. 217. Terra-cotta Handle of a Trojan Brush, with the holes in which the bristles have been fixed (10 M.).

During the last eleven days I have collected 991 of the terra-cotta whorls, 581 of which have symbolical signs, but only 79 have engravings which are new to me. Long thin copper nails with rounded heads, which must have been used as dress or hair pins, were met with at all depths. During these eleven days I have found 20 exquisitely polished axes of diorite.

At a depth of 1 meter (3¼ feet), we yesterday found in the Temple of Athena, beside an inscribed pedestal of black slate, 3 feet 8 inches high and 20¾ inches broad, the statue of a man, of fine white marble, nearly 4 feet high. As is proved by the inscription, it was made by Pytheas of Argos, and was erected by the Ilians in honour of Metrodorus, the son of Themistagoras, of whom it is a representation. The figure was in the position of an orator, as is proved by the footmarks on the pedestal. The head and the feet are unfortunately wanting.

The inscriptions run as follows:—

ΟΔΗΜΟΣΟΙΛΙΕΙΩΝ
ΜΗΤΡΟΔΩΡΟΝΘΕΜΙΣΤΑΓΟΡΟΥ

And lower down, on the same side of the pedestal—

ΠΥΘΕΑΣΑΡΓΕΙΟΣΕΠΟΙΗΣΕ

Ὁ δῆμος ὁ Ἰλιείων
Μητρόδωρον Θεμισταγόρου
Πυθέας Ἀργεῖος ἐποίησε.

There were in antiquity many men named Metrodorus,

but only two of them were especially celebrated, and both were natives of Asia Minor. The one, born in Lampsacus, was a pupil of Epicurus ;* the other, a native of Scepsis, was a philosopher, orator, and statesman, and was held in high esteem by Mithridates VII., Eupator,† who afterwards had him put to death in a horrible manner.‡ The name of the father of this Metrodorus of Scepsis is unknown, and whether he was called Themistagoras, or otherwise, is uncertain; but it is extremely probable that the inscription and the statue were raised in honour of the Scepsian orator, philosopher, and statesman. I find no mention whatever of the sculptor Pytheas of Argos. Only one Pytheas, a silver-chaser, is named by Pliny,§ as being a contemporary of Pompey the Great: Pliny, however, does not state his birth-place. Another Pytheas was a wall painter and a native of Achaia. Neither of these can therefore be the Argive sculptor who made the statue and put his name on the pedestal. But as my learned and much esteemed friend, Professor Stephanos Kummanudes of Athens, has remarked, it is not astonishing that the name of an insignificant sculptor should be forgotten, seeing that the names of so many great kings are lost.

In the same part of the Temple of Athena we found the

To judge from the form and thickness of the stone, this inscription must have been very long and have contained more than 70 lines. But even the fragment is of historical value, and all the more as we know for certain that it comes down to us from the year 80 B.C.

ΕΠΕΙΤΟΥΑΝΘΥΠΑΤΟΥΓΑΙΟΥΚΛΑΥΔΙΟΥΠΟΠΛΙΟΥΥΙΟΥΝΕΡΩΝΟΣΕΠΙΤΑΞΑΝΤΟΣ
ΤΟΙΣΠΟΙΜΑΝΗΝΩΝΑΡΧΟΥΣΙΝΕΞΑΠΟΣΤΕΙΛΑΙΠΡΟΣΗΜΑΣΕΙΣΠΑΡΑΦΥΛΑΚΗΝ
ΤΗΣΠΟΛΕΩΣΣΤΡΑΤΙΩΤΑΣΚΑΙΕΠΑΥΤΩΝΗΓΕΜΟΝΑΣΠΟΙΜΑΝΗΝΩΝ
ΟΝΤΕΣΗΜΩΝΦΙΛΟΙΚΑΙΕΥΝΟΩΣΔΙΑΚΕΙΜΕΝΟΙΠΡΟΣΤΟΝΔΗΜΟΝΗΜΩΝ
ΕΞΑΠΕΣΤΕΙΛΑΝΤΟΥΣΤΕΣΤΡΑΤΙΩΤΑΣΚΑΙΕΠΑΥΤΩΝΗΓΕΜΟΝΑΝΙΚ
ΔΡΟΝΜΗΝΟΦΙΛΟΥΥΙΟΣΚΑΙΠΑΡΑΓΕΝΟΜΕΝΟΣΕΙΣΤΗΝΠΟΛΙΝΗΜΩΝ
ΤΕΕΝΔΗΜΙΑΝΠΟΙΕΙΤΑΙΚΑΛΗΝΚΑΙΕΥΣΧΗΜΟΝΑΚΑΙΑΞΙΩΣ
ΡΟΥΔΗΜΟΥΚΑΙΤΗΣΕΑΥΤΟΥΠΑΤΡΙΔΟΣΤΗΝΤΕΤΩΝ
ΕΑΥΤΩΙΝΕΑΝΙΣΚΩΝΕΝΔΗΜΙΑΝΕΥΤ...ΟΝΠ
ΤΟΝΚΑΘΑΠΕΡΕΠΙΒΑΛΛΕΙΑΝΔΡ
ΧΕΙΡΙΣΜΕΝΗΝΕΑΤΩΙΠΙ
ΤΗΝΥΠΕΡΤΗΣΦΥΛΑΚ
ΕΙΣΦΕΡΕΤΑΙΣΠΟΥΔ
ΕΚΚΑΙΝΩΝΟΥΔΕΙ
ΜΟΝΚΑΙ

ξὶ τοῦ ἀνθυπάτου Γαΐου Κλαυδίου Ποπλίου υἱοῦ Νέρωνος ἐπιτάξαντος
ς Ποιμανηνῶν ἄρχουσιν ἐξαποστεῖλαι πρὸς ἡμᾶς εἰς παραφυλακὴν
ς πόλεως στρατιώτας καὶ ἐπ' αὐτῶν ἡγεμόνας Ποιμανηνῶν (οἱ ;)
ρες ἡμῶν φίλοι καὶ εὐνόως διακείμενοι πρὸς τὸν δῆμον ἡμῶν
ιπέστειλαν τούς τε στρατιώτας καὶ ἐπ' αὐτῶν ἡγεμόνα Νίκ(αν-)
ον Μηνοφίλου (υἱ)ός καὶ παραγενόμενος εἰς τὴν πόλιν ἡμῶν (τήν)
ἐνδημίαν ποιεῖται καλὴν καὶ εὐσχήμονα καὶ αξί(ως τοῦ τε ἡμετέ-)
υ δήμου καὶ τῆς ἑαυτοῦ πατρίδος, τήν τε τῶν (ὑφ';)
υτῷ νεανίσκων ἐνδημίαν εὖτ(ακτ)ον π(αρέχεται καὶ ἑαυ-)
ν καθάπερ ἐπιβάλλει ἀνδρ(ὶ . . . . . καὶ τὴν ἐξουσίαν τὴν ἐγκε-)
ιρισμένην ἑατῷ πι(στῶς καὶ . . . . . .
ν ὑπὲρ τῆς φυλακ(ῆς . . . . . .
ιφέρεται σπουδ(ὴν
καινῶν οὐδει
ν καὶ

CHAPTER XXII.

Interruptions through festivals — Opening of the tumulus of Batieia — Pottery like that of the Trojan stratum at Hissarlik, and nothing else — No trace of burial — Its age — Further discoveries of burnt Trojan houses — Proof of their successive ages — Their construction — Discovery of a double gateway, with the copper bolts of the gates — The "SCÆAN GATE" of Homer — Tests of the extent of ancient Troy — The place where Priam sat to view the Greek forces — Homer's knowledge of the heroic Troy only traditional — Description of the gates, the walls, and the "PALACE OF PRIAM." — Vases, &c., found in Priam's house — Copper, ivory, and other implements — The δέπα ἀμφικύπελλα — Houses discovered on the north platform — Further excavations of the city walls — Statuettes and vessels of the Greek period — Top of the Tower of Ilium uncovered, and its height determined — A curious trench in it, probably for the archers — Further excavations at Bunarbashi: only a few fragments of Greek pottery — The site of Ilium uninhabited since the end of the fourth century — The place confused with Alexandria Troas — No Byzantine remains at Hissarlik — Freshness of the Greek sculptures.

always at hand. Besides this, the long days are of great advantage to me, for I can continue work from a quarter to five till a quarter past seven in the evening.

On the top of the tumulus, which is half an hour distant from the Pergamus, and which, according to the Iliad (II. 811–815), was called by men the tomb of Batiea, and by the gods the tomb of Myrina, I have had a shaft sunk, 10¾ feet broad and 17½ feet long; and I find that the layer of soil there is scarcely more than ¾ of an inch thick, and then follows brown earth as hard as stone, which alternates with strata of calcareous earth. In the brown earth I found a mass of fragments of brilliant black, green, and brown vases, of the same description as those which I find here in the Pergamus at a depth of from 8 to 10 meters (26 to 33 feet); also many fragments of jars (*πίθοι*). Beyond these I discovered nothing at all, and at a depth of 4½ meters (13¾ feet) I came upon the white limestone rock. What is most surprising to me is that I did not even find any charcoal, much less the bones of the burnt corpse. That I should have missed the traces of the funeral pile, if such really existed, is inconceivable to me, when I consider the size of my cutting and of its perpendicular walls.

Now, although I have failed in the actual object of this excavation, still it has this important result for archæology, that, by means of all the fragments of pottery discovered there, it enables us to determine with some degree of certainty the date of the erection of this mound; for it evidently belongs to a time when the surface of the Pergamus was from 26 to 33 feet lower than it is now. It is therefore of the same date as the Tower-road already described, which is paved with large flags of stone, and above which I have carried on the excavations with the greatest industry. I finished these excavations to-day. They have brought to light two large buildings of different ages, the more recent of which is erected upon the ruins of the more ancient one.

Both have been destroyed by terrible fires, of which the walls bear distinct traces; moreover all the rooms of both houses are filled with black, red, and yellow wood-ashes and with charred remains. The more recent house was erected when the ruins of the more ancient house were perfectly covered with ashes and with burnt *débris*, as is obvious from the fact that the more recent walls run in all directions above the more ancient ones, never standing directly upon them, and are frequently separated from them by a layer of calcined *débris*, from 6½ to 10 feet high. The lower, as well as the upper house, is built of stones joined with earth, but the walls of the lower house are much thicker and much more solidly built than those of the upper one. The Tower-road can only have been used when the more ancient house was still inhabited, for it leads directly into it, and the more recent house was not built till the street was covered to a height of 10 feet by the ruins of the more ancient house.

I was firmly convinced that this splendid street, paved with large flags of stone, must proceed from the principal building of the Pergamus, and I therefore confidently carried on the excavation in order to bring that edifice to light. To accomplish this, I was most

THE DOUBLE SCÆAN GATE, PALACE OF PRIAM, AND TOWER OF ILIUM.
From the North-West.

Page 303.

I give drawings. The first gate is 12¼ feet broad, and is formed by two projections of the wall, one of which stands out 2½ feet, the other 2¾ feet; both are 3¼ feet high, and 3¾ feet broad. The street paved with the large flags of stone ends at the first gate, and the road from this to the second gate, which is situated a little more than 20 feet further to the north-east, is very roughly paved with large unhewn stones. The pavement has probably become uneven through the walls of the more ancient house having fallen upon it. (*See Plan II., and Plates XII. and XIII.*)

The second gate is likewise formed by two projections in the wall, which are 2 feet high, above 3 feet broad, and project about 2½ feet.

I have cleared the street as far as 5 feet to the north-east of the second gate, but I have not ventured to proceed further, as this could not be done without breaking down more of the walls of the second house, the preservation of which is of the greatest interest to archæology. For, although it must be of a much more recent date than the lower one upon the ruins of which it stands, yet, as is proved by the terra-cottas and the idols with owls' heads, as well as by its position at a depth of from 6 to 7 meters (20 to 23 feet) below the surface, it was built centuries before the time of the Greek settlement, the ruins of which extend only to a depth of 6½ feet. This upper and later house is therefore certainly older than the Homeric poems.

In my last report I expressed the firm conviction that the Tower-road, which inclines abruptly towards the Plain to the south-west, must lead to the Scæan Gate, which I thought could at most be 492 feet distant. I now venture positively to assert that the great double gate which I have brought to light must necessarily be the SCÆAN GATE. For in the mound, which runs out far to the south-west from the foot of the Pergamus and in a straight line with the Tower-road—which mound I had supposed to contain the great city wall of Ilium and the Scæan Gate,—

in this mound, close to the main hill, I have sunk a shaft, nearly 6 feet broad and 11 feet long. Here I found exclusively Greek fragments of pottery, and I came upon the rock at the small depth of 7½ feet; thus I convinced myself that ancient Troy can never have extended so far towards the Plain. A second excavation, 11½ feet long and 6½ feet broad, which I made exactly 443 feet further to the east up the plateau, had a similar result, for I came upon the rock at a depth of 16½ feet, and here also I found exclusively fragments of Hellenic pottery (which in the Pergamus I meet with only at a depth of 6½ feet), and no trace of Trojan pottery.

This sufficiently proves that the ancient city cannot even have extended as far as this point, and its area must have been connected with the Pergamus still further eastwards.* I am at present occupied in making fifteen other shafts in this direction, and I hope, in spite of the great depth I have to sink them, that I shall succeed, at least to some extent, in determining the topography of Troy. I shall leave all the shafts open, so that every visitor may convince himself about the truth of my statements.

Meanwhile the two shafts described above have gained

splendid passage in the Iliad.* From this spot the company surveyed the whole Plain, and saw at the foot of the Pergamus the Trojan and the Achæan armies face to face about to settle their agreement to let the war be decided by a single combat between Paris and Menelaus.

When Homer† makes Hector descend from the Pergamus and rush through the city in order to arrive at the Scæan Gate, this can only have arisen from the fact that, after the destruction of Troy, the gate, as well as the street which led down from it to the Plain, were covered with a layer of *débris* 10 feet thick, so that the names only were known from tradition, and their actual site was unknown.

In order not to weary the reader with a detailed description of the Scæan Gate, I give an exact plan of it, where all the details may be seen. (Plan III., p. 306.) This gate, as well as the large ancient building, stands upon the wall or buttress already mentioned as leaning on the north side of the Tower. At this place the buttress appears to be about 79 feet thick, and to be made of the *débris* which was broken off the primary soil when the Tower was erected. The site of this building, upon an artificial elevation directly above the gate, together with its solid structure, leave no doubt that

* *Iliad*, III. 146–244 :—

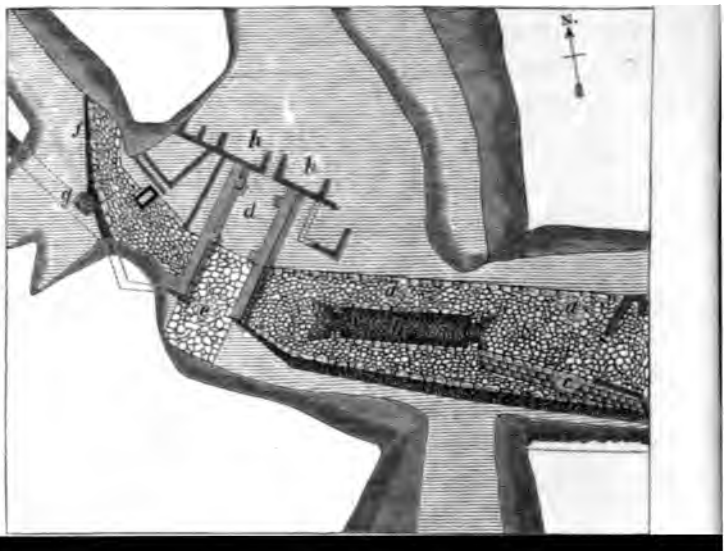
" Attending there on aged Priam, sat
The Elders of the city ; . . . . .
All these were gathered at the Scæan Gates.
. . . . . so on Ilion's Tower
Sat the sage chiefs and councillors of Troy.
Helen they saw, as to the Tower she came."

† *Iliad*, VI. 390–393 :—

Ἦ ῥα γυνὴ ταμίη · ὁ δ' ἀπέσσυτο δώματος Ἕκτωρ
Τὴν αὐτὴν ὁδὸν αὖτις ἐϋκτιμένας κατ' ἀγυιὰς.
Εὖτε πύλας ἵκανε διερχόμενος μέγα ἄστυ
Σκαιάς τῇ γὰρ ἔμελλε διεξίμεναι πεδίονδε——

" So spoke the ancient dame ; and Hector straight
Through the wide streets his rapid steps retraced.
But when at last the mighty city's length
Was traversed, and the Scæan Gates were reached,
Whence was the outlet to the plain——"

it was the grandest building in Troy; nay, that it must have been the PALACE OF PRIAM.* I am having an accurate plan made, so far as I can, of the portion that has been laid bare; I cannot, however, bring to light the whole of it, for in order to do this I should have to pull down both my stone and my wooden house, beneath which it extends: and even if I did pull down my own houses, I should still be unable to make a complete plan of the house till I had



Gate, is in reality an artificial one, by examining my last year's great cutting, which pierces through a portion of this elevation. The walls of that cutting, from the shaft as far as the gate, show that the mound consists of the native earth which has been thrown up, mixed with fragments of rare pottery and shells.

Now, with regard to the objects found in these houses, I must first of all mention having discovered, at a depth of 26 feet, in the palace of Priam, a splendid and brilliant brown vase, 24¼ inches high, with a figure of the tutelar goddess of Troy, that is, with her owl's head, two breasts,

No. 219. Wonderful Vase of Terra-cotta from the Palace of Priam (8 M.).*

* In the letter-press to the Atlas of Photographs this object is described as "a brilliant dark-red Vase, 62 centimeters (above 2 feet) high, with the owl-face of Troy's tutelar goddess, her two breasts, a necklace, and a royal scarf round the whole body. It is remarkable that this vase has not the two uplifted arms of the goddess, which are wanting in no other case, and that it has only two handles."

a splendid necklace, indicated by an engraved pattern, a very broad and beautifully engraved girdle, and other very artistic decorations; there are no arms, nor are there any indications of them. Unfortunately this exquisite vase has suffered from the weight of stones which lay upon it, and although I myself cut it with a knife from among the stones and the stone-hard *débris* with the greatest care, I did not succeed in getting it out without breaking it to pieces. I have, however, carefully collected all the fragments and sent them to Athens to be put together, that I may give a drawing of it. (This is No. 219.)

Among the very remarkable vases discovered in this palace, I must also mention one nearly a foot high, with two handles, and an encircling row of cuneiform engravings

No. 220. Terra-cotta Vase from the House of Priam, with remarkable Decorations (9 M.).

above which, on both sides, there is a very prominent decoration, in the form of spectacles, which is connected with a kind of necklace by an engraved tree. I must further draw special attention to an exceedingly remarkable vase, which was found in the same house, and upon

which there are actual letters in a circle round it. One piece of the vase is wanting, and with it a portion of the inscription; but, in order to lay before the reader all that has been preserved of it, I give the inscription separately, for it would be impossible to give it accurately on the drawing of the vase. (See No. 3, p. 23.) It would please me immensely if anyone could decipher the Trojan writing, and thus throw some light upon the great people to whom it belonged, and upon the epoch at which it was written.* I must also draw attention to a vase, upon which at first sight it seems as if there were a row of letters; at a closer examination, however, it appears not to be writing, but symbolical signs, as the cross is conspicuous in almost every figure.†

No. 221. A Terra-cotta Vase with two little Ears, and two large perforated Handles, marked with eleven strange characters (5½ M.).

The *depth* must refer to the *upper house* above the Palace. It is given as 8½ M. in the Photograph, but corrected in the descriptive letter-press to 5½ M.; and a like correction seems to have been neglected in the Book.—[ED.]

In the same house I found three brilliant red vases, with two handles, a prominent decoration on either side in the form of spectacles, and two mighty wings, standing erect by the side of the neck;—half-a-dozen vases of various sizes, with uncommonly long tubes at the sides and with holes in the mouth for suspending them by strings;—a very large and brilliant black vase, with two handles and two ornaments in the form of large ears;—likewise a smaller vase, with large perforated ears for the string by which it was hung up;—a vase with three feet, rings for hanging it up, and beautiful engraved

* The Inscription on this Vase has been discussed by Professor Gomperz, who also pronounces the characters on it as well as on the other vase (No. 221) to be Cyprian writing. (See Appendix.)

† Compare the Introduction, p. 50.

decorations, namely, two encircling stripes with zigzag lines, and five lines round the neck. (No. 222.) Further, I found a vase rounded at the bottom, with perforated handles, and completely covered with dots (No. 223);—also two covers with pretty owls' heads, one of which has remarkably large eyes;—also a fragment of the fore part of a vase with a sheep's head;—a curious small but very broad vase, with three feet and long tubes for hanging

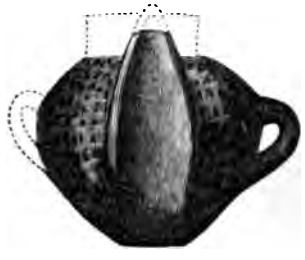
No. 222. A splendidly-decorated Vase of Terra-cotta, with three Feet and two Ears. From the Palace (7¼ M.).

No. 223. A Terra-cotta Vase, with two Ears and covered with dots. From the Palace (7 M.).

it up by strings;—a peculiar terra-cotta lamp, with a perforated handle in the form of a crescent, and two other projecting handles, with tubes for suspension;—a red jug with a handle, a neck completely bent back, a beak-shaped mouth, and two eyes;*—a small vase, covered with dots and possessing two handles and two immense erect ears;—a jug, with two female breasts;—a vase, with the owl's face and the body of the Ilian Athena, and two upraised arms;—also the upper portion of another vase, upon which may be

* See Cut, No. 54, p. 87.

seen a mouth below the beak of the Trojan tutelary goddess; and a vase, with a large hollow foot, very long tubes at the sides for hanging it up, and two prominent decorations in the form of spectacles.



No. 224. Fine decorated Vase of Terra-Cotta, with two Handles and two great upright Wings. From the Palace (7¼ M.).

Among the smaller terra-cottas found in the palace of Priam, I have particularly to mention a vessel 2¾ inches long, in a human form, with the owl's head of the Ilian Athena and unusually large eyes: two lines on the temples appear to indicate the helmet, three horizontal lines on the neck her armour.* The body is covered with an arched shield 1½ inch long, upon which there are ten rows of dots, which are probably intended to represent the heads of the small nails with which the layers (πτύχες) were fastened together; the shield of Ajax, for instance, consisted of seven layers of hides and an outer case of copper.† The Trojan goddess carries on both sides a large wing, in the form of a bottle, which is decorated with horizontal lines. The long hair at the back of the goddess's head is very distinct; it is gathered into a plait, and falls down almost as far as her ankles, and is wrought with great care, reminding one extremely of the very similar plaits of the Caryatides in the Erechtheum of the Acropolis of Athens. Not only is the idol hollow, but so also are the wings; the latter must positively have some symbolical significance.

In the palace of Priam I further met with four marble and three bone idols, with the owl's head of the tutelar goddess of Troy: one of the bone idols is painted with a

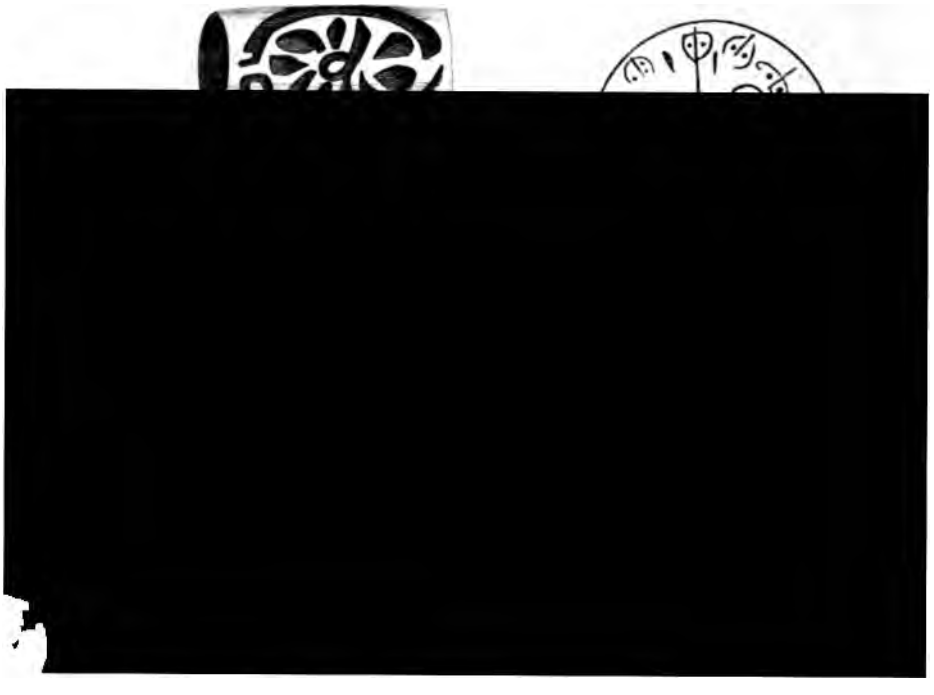
* This most curious vase is engraved in the Introduction, No. 31, p. 37.

† See the passage quoted below to illustrate the shield found among the Treasure (Chapter XXIII., p. 324).

white colour. I likewise discovered there ten marble idols, without the owl's head; also the fragment of a sword, as well as of a lance, a knife, and some copper implements: further, a dozen long, thin copper nails, which must have served as hair or dress pins; besides these, a packet of five dress pins, which have been molten together in the heat of the conflagration: one of the pins has two heads, one above

No. 225. Five Copper Dress Pins, molten together by the conflagration. From the Palace (8 M.).

the other, the lower head being perfectly round. I also discovered here a perforated cylinder, 1¾ inch long, made of blue felspar, and ornamented all round with extremely remarkable engraved symbols. I there also discovered an extremely curious ivory article, which must be part of a musical instrument;* six sling bullets of loadstone and an arrow-head.



symbolical signs. One of these is especially remarkable *: it has ten roughly-engraved owls' faces, so coarsely drawn that I should not even know them to be owls' faces, were it not that I have occasionally found just as rude representations of the owl's head upon idols. I also discovered in the same house six beautifully-polished axes of diorite; also one of those round twice-perforated terra-cottas, arched on both sides and flattened on the edge of one side, the whole of this flat side being filled with a stamp bearing the impression of an eagle and a stag or an antelope; further, four of those frequently-described large red goblets, round below and with two large handles, which can only stand on the mouth. These four goblets are, unfortunately, all broken, and I shall not be able to have them repaired till I return to Athens.

I now venture positively to maintain that these goblets, which, from my former reports and drawings are known to be from 5 to nearly 16 inches high, must necessarily be the Homeric "δέπα ἀμφικύπελλα," and that the usual interpretation of these words by "*double cups, with a common bottom in the centre*," is entirely erroneous. It really appears as if this wrong translation arose solely through Aristotle; for, as is clear from his *Hist. Anim.* (9, 40), there were in his time double cups with a common bottom in the centre; and, in fact, many years ago it is said that such a cup was discovered in Attica, and bought by the Museum in Copenhagen. But in the Homeric Troy there were no such cups, otherwise I should have found them. As already remarked in one of my previous reports (p. 129), I found on the primary soil, at a depth of from 46 to 52½ feet, several fragments of brilliant black goblets, which I then considered to be fragments of double cups, because there

* This is drawn as a *whorl*, and is so called by Dr. Schliemann in a letter, informing us that it is found to bear an Inscription. It is not described in the letter-press to the Photographs.—[ED.]

was a hollow upon both sides of the bottom; but the one hollow was in all cases quite small in comparison with the other, and must, therefore, have been in the foot of the cup. If δέπας ἀμφικύπελλον means *double cup*, then ἀμφιφορεύς must mean *double urn*, which is not possible either in the Iliad (XIII. 92), the Odyssey (XXIV. 74), or elsewhere in Homer; moreover, it has never occurred to anyone to translate it otherwise than "urn with two handles;" consequently, δέπας ἀμφικύπελλον cannot be translated otherwise than by "cup with two handles." As an actual double cup can, of course, only be filled on one side at a time, Homer would certainly never have constantly described the filled cup as a double cup, for there would have been no sense in the name. By the term ἀμφικύπελλον, however, he wished to signify that the filled cup was presented by one handle and accepted by the other handle. Interpreted in this manner, there is a great deal of meaning in the name.*

The palace of King Priam furnished me also with two large fragments of a large brilliant yellow urn, adorned in the most beautiful manner with engraved decorations. Among others, it has several rows of circles running round it, in each of which there is a triple cross. The elegance

jugs which I shall not describe, as they have already been frequently met with. Of idols with owls' faces I have found only one. There also I discovered many fragments of those large red goblets with two handles, which I now recognise to be the Homeric δέπας ἀμφικύπελλον.

No. 228. Terra-cotta Vase, with a curious Decoration. From the upper and later House above the Scæan Gate (6 M.).

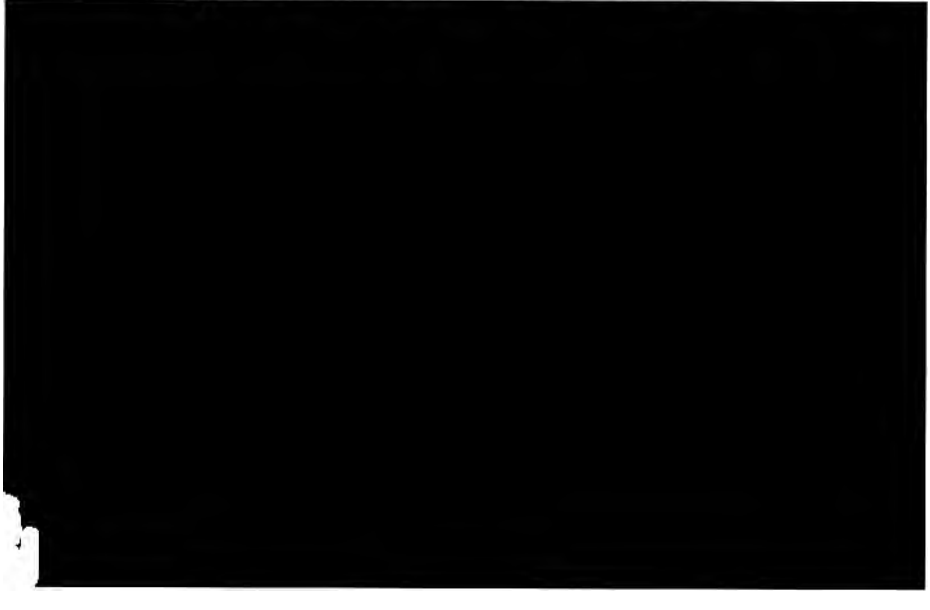
As the excavation above the Scæan Gate is finished, I am now again vigorously at work on the great platform on the north side, which I have lately had worked whenever I had workmen

No. 229. Terra-cotta Vase, with four Handles and a Lid. From the upper House above the Scæan Gate (6 M.).

No. 230. A great Jug, with Handle and two Ears. From the upper House above the Scæan Gate (6 M.).

to spare. We now come upon several houses there at a depth of from 33 to 20 feet; also, as it seems, upon a great wall of fortification in the lower strata.

As it is extremely important to know what were the fortifications on the west and north-west of the Pergamus at the time of the Trojan war, and as I see another wall, 11½ feet thick, running in a north-western direction from the Scæan Gate, which however it is impossible to follow from this side,—during the last eight days I have been making a cutting, 33 feet broad and 141 long, on the north-west side of the hill, at the point where, in April 1870, I made the first cutting, which therefore my men call ἡ μάμμη τῶν ἀνασκαφῶν ("the grandmother of the excavations"). I am having the *débris* removed simultaneously by a small platform, made at a depth of 34½ feet on the declivity of the hill, and by three galleries. The distance is not great, and the wheel-barrows proceed across level ground, and moreover the *débris* here is very light, and only requires to be thrown down the declivity; so the work advances very rapidly. Upon the lower platform I came upon the surrounding wall built by Lysimachus, which is 13 feet high and 10 feet thick, and is composed of large hewn blocks of limestone laid upon one another



to a considerable height above the surface of the hill, whereas it is now covered with 16½ feet of *débris*, but also by the remains of the Hellenic period, which here extend down to a great depth. It appears, in fact, as if the rubbish and refuse of habitations had been thrown down here for centuries, in order to increase the height of the place. This also explains how it is that I find here a quantity of small but interesting objects from the Greek period. Among others are 24 heads of terra-cotta figures, 17 of which are of great beauty; also a great number of other fragments of statuettes of the same description, which display skilful workmanship; a terra-cotta slab 5½ inches in length, upon which is a representation of a woman; also eight small terra-cotta slabs, nearly 2 inches in length, upon which I find very curious and to me utterly unknown objects in high relief.* I also found here the fragments of some vessels of exquisite workmanship; two beautifully decorated lamps; and a leaden plate, 2¾ inches long and broad, with a pig's head in bas-relief, which, as I conjecture, may have been a coin. We also discovered here a vessel 28¾ inches long, of an extremely fanciful shape, with a long and very thin foot, a long thin neck, and two enormous handles.

Upon the great platform, at a depth of 4 meters (13 feet), we found a very remarkable cup, which has a handle, and in its hollow foot four oval holes, pierced opposite to one another. Last year I repeatedly found the feet of cups of this sort at a depth of from 46 to 52½ feet, but hitherto I have never met with an entire goblet of this form.

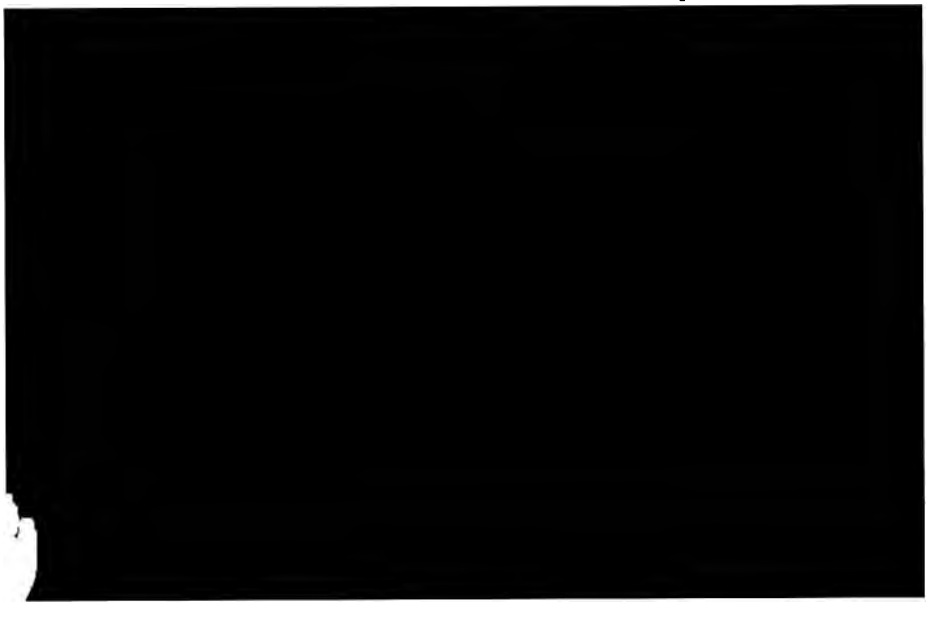
No. 231. A remarkable Terra-cotta Cup (4 M.).

* See the Cuts placed as headings to the "Table of Contents," and "List of Illustrations."

As I no longer require the surface of the Tower for removing the *débris*, I have had it quite cleared, and I find in the centre of it a depression, 45¼ feet long, from 8¼ to 14¾ feet broad, and barely 3 feet deep, which may have been used for the archers.* It has now become evident to me that what I last year considered to be the ruins of a second storey of the Great Tower are only benches made of stones joined with earth, three of which may be seen rising behind one another like steps.† From this, as well as from the walls of the Tower and those of the Scæan Gate, I perceive that the Tower never can have been higher than it now is.

The excavations of the north side of the field belonging to Mr. Calvert, which I opened to discover other sculptures, have been stopped for some time, as I can no longer come to terms with him. At present, I have only two foremen, for I was obliged to dismiss Georgios Photidas, three weeks ago, for urgent reasons.

In conclusion, I have to mention that, during the Greek Easter festival, accompanied by my esteemed friend, Judge Schells of Ratisbon, and my wife, I visited Bunarbashi and the neighbouring heights. In their presence, I made some small excavations, and I have proved that even



I must also add that I now positively retract my former opinion, that Ilium was inhabited up to the ninth century after Christ, and I must distinctly maintain that its site has been desolate and uninhabited since the end of the fourth century. I had allowed myself to be deceived by the statements of my esteemed friend, Mr. Frank Calvert, of the Dardanelles, who maintained that there were documents to prove that the place had been inhabited up to the thirteenth and fourteenth centuries after Christ. Such documents, if they really do exist, must necessarily refer to Alexandria Troas, which is always, as for instance in the New Testament, simply called Troas; for on its site quantities of Byzantine antiquities are found even on the surface, which seem to prove that the city was inhabited up to the fourteenth century, or still longer. Here in Ilium, on the other hand, there is no trace of Byzantine architecture, of Byzantine sculpture, of Byzantine pottery, or of Byzantine coins. Altogether I found only two copper medals of Byzantine monasteries, which may have been lost by shepherds. I found hundreds of coins belonging to the time of Constantine the Great, Constans II., but no medals whatever of the later emperors.

As hitherto it was in the Pergamus alone that I found no trace of the Byzantine period, I thought that it was only the fortress that was uninhabited during that period, but that the region of the city had been occupied. But my fifteen shafts, which I am having made on the most various points of the site of Ilium, as well as the two shafts made upon the primary soil, prove, as anyone may convince himself, that below the surface there is no trace of the Byzantine period, nay that, beyond a very thin layer of earth, which however only exists in some parts, the ruins of the Greek period extend up to the very surface, and that in several of the shafts I came upon the walls of Greek houses even on the surface.

It is impossible that a Byzantine town or a Byzantine village, nay, that even a single Byzantine house, can have stood upon this hilly and stone-hard ground, which covers the ruins of a primeval city, without leaving the most distinct traces of its existence, for here, where for nine or ten months of the year it never rains, except during rare thunderstorms, the productions of human industry do not become weather-beaten and destroyed, as in other countries where there is frequent rain. The very fragments of sculptures and inscriptions, which I find here in the Pergamus and in the other districts of the city, upon the surface, and which have lain exposed to the open air for at least 1500 years, are still almost as fresh as if they had been made yesterday.

Trusting to the statements of Mr. Frank Calvert, and under the impression that Ilium had been inhabited for a long time under the Byzantine dominion, I described the wall, composed of Corinthian pillars and cement, 10 feet thick, and which gave me so much trouble to break through at the south-east corner of the Pergamus, as of Byzantine architecture. (Pp. 230, 250.) I am now, however, forced to believe that the Temple of Athena, to which these pillars belong, was destroyed by the religious zeal of

Hellespont.
Plain of Troy.
Scamander.

Greek Tower (where the man stands).

A Place where the Treasure was found.

Wall of Troy
Scæan Gate,
and
Paved Road
to the
Plain.

Plain of Troy, seen through the great Trench.

Later but Pre-Hellenic Buildings, partly over the Ruins of Priam's Palace.

Paved Road. TOWER OF ILION. Page 391.

THE SCÆAN GATE AND PAVED ROAD, THE TOWER OF ILIUM, CITY WALL, PALACE OF PRIAM,
AND THE WALLS OF A TOWER OF THE GREEK AGE.

CHAPTER XXIII.

Further discoveries of fortifications — The *great discovery of the* TREASURE *on the city wall* — Expedient for its preservation — The articles of the Treasure described — The Shield — The Caldron — Bottle and Vases of Gold — The golden δέπας ἀμφικύπελλον — Modes of working the gold — A cup of electrum — Silver plates, probably the *talents* of Homer — Vessels of Silver — Copper lance-heads: their peculiar form — Copper battle-axes — Copper daggers — Metal articles fused together by the conflagration — A knife and a piece of a sword — Signs of the Treasure having been packed in a wooden chest — The Key found — The Treasure probably left behind in an effort to escape — Other articles found near the Treasure — The thousands of gold jewels found in a silver vase — The two golden Diadems — The ear-rings, bracelets, and finger-rings — The smaller jewels of gold — Analysis of the copper articles by M. Landerer — Discovery of another room in the Palace containing an inscribed stone, and curious terra-cottas — Silver dishes — Greek terra-cotta figures — Great abundance of the owl-faced vases.

Limited extent of Troy — Its walls traced — Poetic exaggerations of Homer — *The one great point of* TROY'S *reality established* — It was as large as the primitive Athens and Mycenæ — The wealth and power of Troy — Great height of its houses — Probable population — Troy known to Homer only by tradition — Question of a Temple in Homer's time — Characteristics of the Trojan stratum of remains, and their difference from those of the lowest stratum — The former opinion on this point recalled — Layer of metallic *scoriæ* through the whole hill — Error of Strabo about the utter destruction of Troy — Part of the real Troy unfortunately destroyed in the earlier excavations; but many Trojan houses brought to light since — The stones of Troy not used in building other cities — The Trojan houses of sun-dried bricks, except the most important buildings, which are of stones and earth — Extent and results of the excavations — Advice to future explorers.

Further excavations on the North side — Very curious terra-cotta vessels — Perforated vases — A terra-cotta with hieroglyphics — Heads of oxen and horses; their probable significance — Idols of the Ilian Athena — Greek and Roman medals — Greek inscriptions — Final close of the excavations: thanksgiving for freedom from serious accidents — Commendations of Nicolaus Saphyros Jannakis, and other assistants, and of the artist Polychronios Tempesis and the engineer Adolphe Laurent.

Troy, June 17th, 1873.

SINCE my report of the 10th of last month I have been especially anxious to hasten the great excavation on the north-west side of the hill, and for this purpose I have made a deep cutting on the west side also, in which, unfortunately, I came obliquely upon the enclosing wall of Lysimachus, which is 13 feet high and 10 feet thick. I was therefore compelled to break out from this wall a double quantity of stones in order to gain an entrance; but I again came upon the ruins of colossal buildings of the Hellenic and pre-Hellenic periods, so that this excavation can only proceed slowly. Here, at a distance of 69 feet from the declivity of the hill, at a depth of 20 feet, I met with an ancient enclosure 5 feet high, and with a projecting battlement. It is not connected with the wall which runs out from the Scæan Gate in a north-westerly direction, and, on account of its very different structure and small height, it must belong to a post-Trojan period. In any case, however, it is much older than the Greek colony, because it is built of stones and earth, and because I found by the side of it several marble idols of the tutelar goddess of Ilium. I am, unfortunately, obliged to break down a portion of this wall to

a tower, the lower projecting part of which must have been built during the first period of the Greek colony, whereas its upper portion seems to belong to the time of Lysimachus. (See Plate XIII.) To this tower also belongs the wall that I mentioned in my last report as 9 feet high and 6 feet broad, and as continuous with the surrounding wall of Lysimachus; and so does the wall of the same dimensions, situated 49 feet from it, which I have likewise broken through. Behind the latter, at a depth of from 26 to 30 feet, I uncovered the Trojan city wall which runs out from the Scæan Gate.

In excavating this wall further and directly by the side of the palace of King Priam,* I came upon a large copper article of the most remarkable form, which attracted my attention all the more as I thought I saw gold behind it. On the top of this copper article lay a stratum of red and calcined ruins, from $4\frac{3}{4}$ to $5\frac{1}{4}$ feet thick, as hard as stone, and above this again lay the above-mentioned wall of fortification (6 feet broad and 20 feet high) which was built of large stones and earth, and must have belonged to an early date after the destruction of Troy. In order to withdraw the Treasure from the greed of my workmen, and to save it for archæology, I had to be most expeditious, and although it was not yet time for breakfast, I immediately had "*païdos*" called. This is a word of uncertain derivation, which has passed over into Turkish, and is here employed in place of *ἀνάπανσις*, or time for rest. While the men were eating and resting, I cut out the Treasure with a large knife, which it was impossible to do without the very greatest exertion and the most fearful risk of my life, for the great fortification-wall, beneath which I had to dig, threatened every moment to fall down upon me. But the sight of so many objects, every one of which is of inestimable value to archæology, made me foolhardy, and I never thought of any danger. It would, however, have been im-

* See the spot marked on Plan II. No. 42, and Plate XIII. *a*.

possible for me to have removed the Treasure without the help of my dear wife, who stood by me ready to pack the things which I cut out in her shawl and to carry them away.*

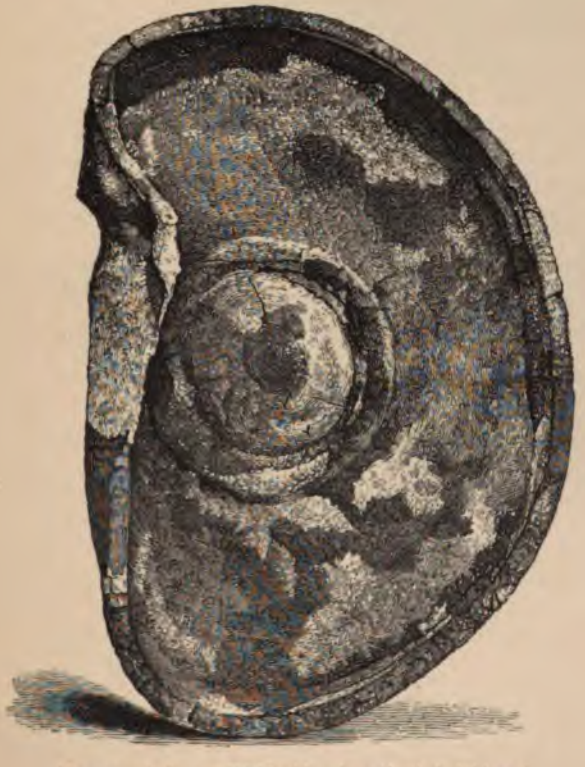
The first thing I found was a large copper shield (the ἀσπὶς ὀμφαλόεσσα of Homer) in the form of an oval salver, in the middle of which is a knob or boss encircled by a small furrow (αὔλαξ). This shield is a little less than 20 inches in length; it is quite flat, and surrounded by a rim (ἄντυξ) 1½ inch high; the boss (ὀμφαλός) is 2⅓ inches high and 4⅓ inches in diameter; the furrow encircling it is 7 inches in diameter and ⅖ of an inch deep.†

* The articles belonging to the Treasure are partly engraved on seven separate Plates (XIV.—XX.), and partly marked with TR. in the cuts. They were found at a depth of 8½ meters, nearly 28 feet. The *General View of the Treasure* (Plate III., opposite p. 22) shows a few objects which are either so like others, or so insignificant, as not to need a separate delineation.

† See Plate XIV., No. 234. This round shield of copper (or bronze?), with its central boss, and the furrow and rim so suitable for holding together a covering of ox-hides, reminds us irresistibly of the seven-fold shield of Ajax :—*Iliad*, VII. 219–223 (cf. 245–247) :—

Αἴας δ' ἐγγύθεν ἦλθε φέρων σάκος ἠΰτε πύργον,
Χάλκεον ἑπταβόειον, ὃ οἱ Τυχίος κάμε τεύχων,
Σκυτοτόμων ὄχ' ἄριστος, Ὕλῃ ἔνι οἰκία ναίων.

No. 235.—Great Copper Caldron (λέβης).



No. 234.—A Copper Shield with a boss (ἀσπὶς ὀμφαλόεσσα).

No. 236.—Curious Plate of Copper (perhaps a Hasp of the Chest), with Discs fixed on one end, and a Silver Vase welded to the other by the conflagration.

No. 237.—Bottle of pure Gold, weighing about 1 lb. Troy.

No. 238.—Cup of pure Gold, panelled, weighing 7¼ oz. Troy.

The second object which I got out was a copper caldron with two horizontal handles, which certainly gives us an idea of the Homeric λέβης; it is 16½ inches in diameter and 5½ inches high; the bottom is flat, and is nearly 8 inches in diameter.*

The third object was a copper plate ⅖ of an inch thick, 6⅓ inches broad, and 17⅓ inches long; it has a rim about 1/12 of an inch high; at one end of it there are two immovable wheels with an axle-tree. This plate is very much bent in two places, but I believe that these curvatures have been produced by the heat to which the article was exposed in the conflagration; a silver vase 4¾ inches high and broad has been fused to it; I suppose, however, that this also happened by accident in the heat of the fire.† The fourth article I brought out was a copper vase 5½ inches high and 4⅓ inches in diameter. Thereupon followed a globular bottle of the purest gold, weighing 403 grammes (6220 grains, or above 1 lb. troy); it is nearly 6 inches high and 5½ inches in diameter, and has the commencement of a zigzag decoration on the neck, which, however, is not continued all round. Then came a cup, likewise of the purest gold, weighing 226 grammes (7¼ oz. troy); it is 3½ inches high and 3 inches broad.‡

> "His shield's broad *orb* before his breast he bore,
> Well wrought, *of beaten brass*, which the armourer's hand
> Had beaten out, and lined with stout bull's hide
> With golden rods, continuous, all around."—[ED.]

* See Plate XIV., No. 235. In the Iliad the λέβης is used almost always as a caldron, and is often given as a prize at games; in the Odyssey it is always used for washing the hands or feet. This one shows the marks of a fearful conflagration, and near the left handle are seen two fragments of copper weapons (a lance and a battle-axe) firmly molten on. (Description to the Atlas of Photographs.)

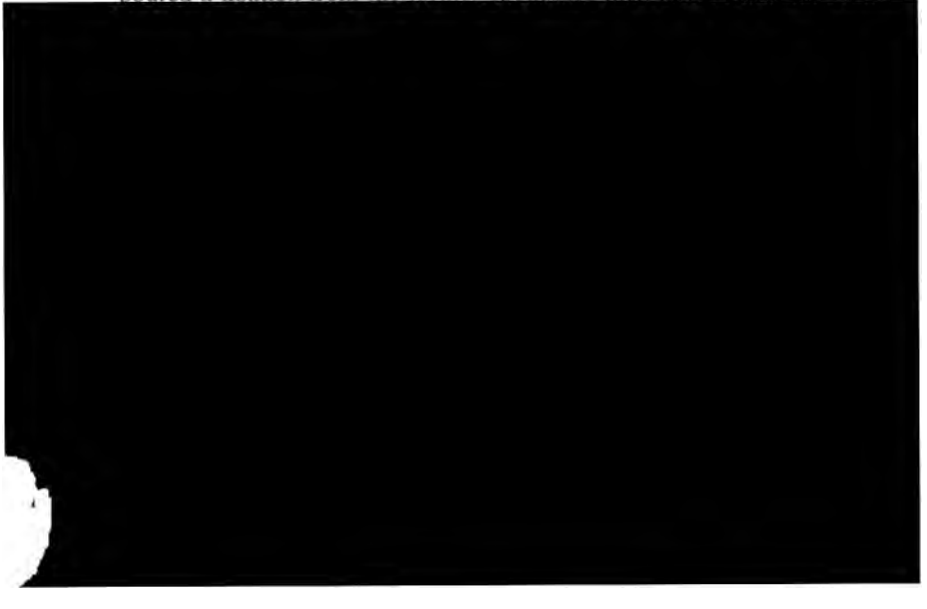
† See Plate XV., No. 236. This remarkable object lay at the top of the whole mass, and Dr. Schliemann supposes it to have formed a hasp to the lid of the wooden chest in which the Treasure was packed. (Description in Atlas.)

‡ These vessels of gold are shown on Plate XV., Nos. 237, 238.

Next came another cup of the purest gold, weighing exactly 600 grammes (about 1 lb. 6 oz. troy);* it is $3\frac{1}{2}$ inches high, $7\frac{1}{4}$ inches long, and $7\frac{1}{5}$ inches broad; it is in the form of a ship with two large handles; on one side there is a mouth, $1\frac{1}{5}$ inch broad, for drinking out of, and another at the other side, which is $2\frac{3}{4}$ inches broad, and, as my esteemed friend Professor Stephanos Kumanudes, of Athens, remarks, the person who presented the filled cup may have first drunk from the small mouth, as a mark of respect, to let the guest drink from the larger mouth.† This vessel has a foot which projects about $\frac{1}{12}$ of an inch, and is $1\frac{1}{3}$ inch long, and $\frac{4}{5}$ of an inch broad. It is assuredly the Homeric δέπας ἀμφικύπελλον. But I adhere to my supposition that all of those tall and brilliant red goblets of terra-cotta, in the form of champagne-glasses with two enormous handles, are also δέπα ἀμφικύπελλα, and that this form probably existed in gold also. I must further make an observation which is very important for the history of art, that the above-mentioned gold δέπας ἀμφικύπελλον is of *cast gold*, and

* Plate XVI., Nos. 239, 240.

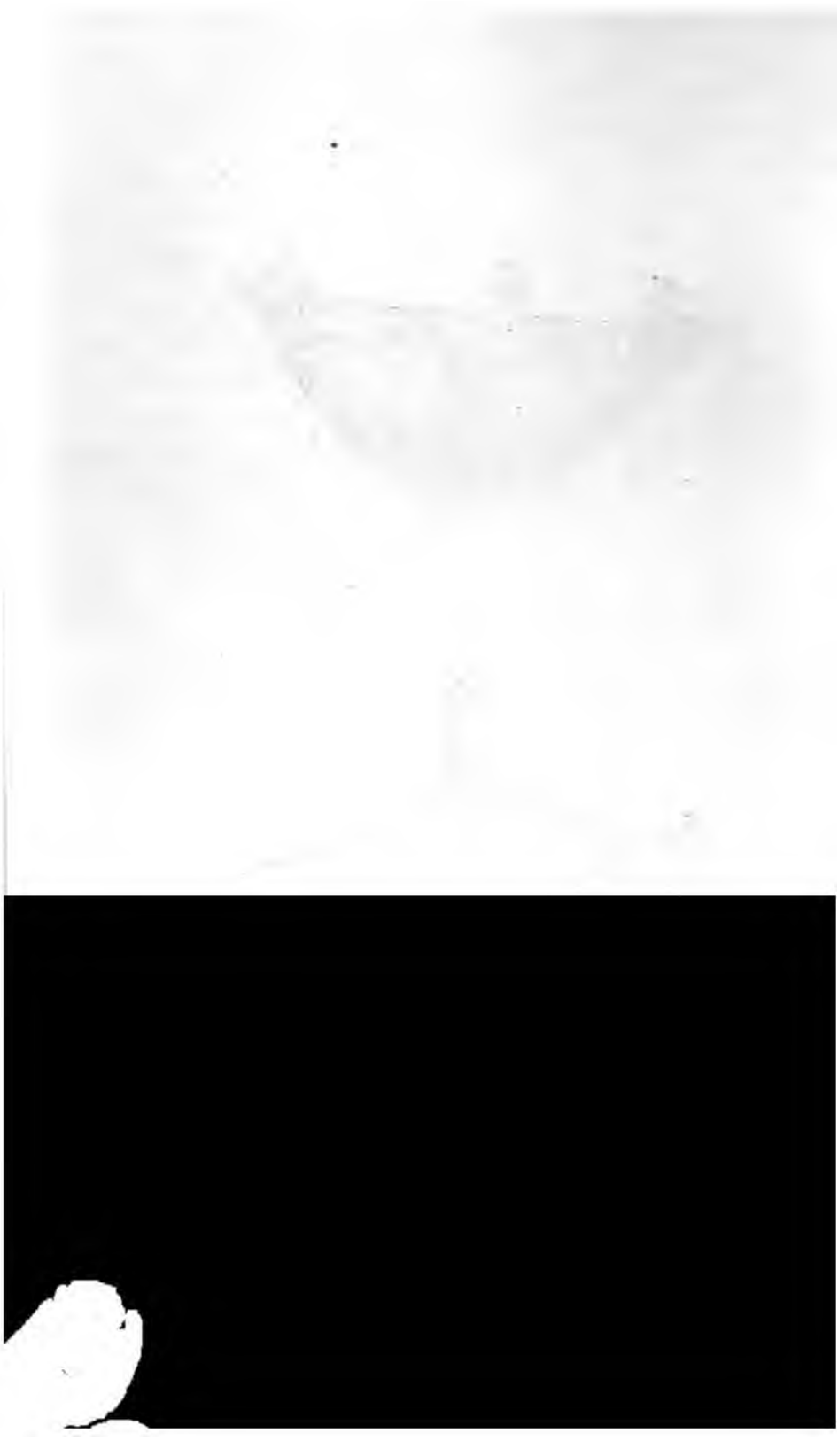
† Or, as suggested in the 'Quarterly Review' for April 1874, a person, holding the cup before him by the two handles, may have poured a libation from the further spout and then have drunk out of the



No. 239.—Outside View of the Two-handled Gold Cup.

No. 240.—Inside View of the Two-handled Gold Cup.

REMARKABLE TWO-HANDLED CUP OF PURE GOLD (δέπας ἀμφικύπελλον).
Weighing about 1 lb. 6 oz. Troy.



that the large handles, which are not solid, have been fused on to it. On the other hand the gold bottle and the gold cup mentioned above have been *wrought with the hammer*.

No. 241. Bronze Cup used in China for Libations and Drinking.

The Treasure further contained a small cup of gold alloyed with 20 per cent. of silver, that is. the mixed metal called *electrum*.* It weighs 70 grammes (2¼ oz. troy), and is above 3 inches high, and above 2½ inches broad. Its foot is only ⅘ of an inch high and nearly an inch broad, and is

attention to the "key" ornament round the cup, which is so well known in the purest Greek art, as a sign of Chinese influence on the art of Western Asia and Europe. Mr. Lockhart also reads Chinese characters on some of the Trojan whorls. We are under a deep obligation to Mr. Lockhart for his spontaneous offer of this very interesting illustration of one of the most striking and (as we before supposed) *unique* objects discovered by Dr. Schliemann.—[Ed.]

* Plate XVIII., No. 248.

moreover not quite straight, so that the cup appears to be meant only to stand upon its mouth.

I also found in the Treasure six pieces of the purest silver in the form of large knife-blades, having one end rounded, and the other cut into the form of a crescent: they have all been wrought with the hammer.* The two larger blades are nearly 8½ inches long and 2 inches broad, and weigh respectively 190 and 183 grammes. The next two pieces are about 7¼ inches long and 1½ broad, and weigh respectively 174 and 173 grammes. The two other pieces are nearly 7 inches long and 1⅓ inch broad, and weigh respectively 173 and 171 grammes.† It is extremely probable that these are the Homeric *talents* (τάλαντα), which could only have been small, as, for instance, when Achilles offers for the first prize a woman, for the second a horse, for the third a caldron, and for the fourth two gold talents.‡

* See Plate XVII., No. 242.

† The two largest weigh, respectively, a little over and a little under 6 oz., and the other four are all a little over 5½ oz., troy. The *gramme* is 15·43235 grains, that is, a little less than 15½ grains.

‡ *Iliad*, XXIII. 262–270 (cf. vv. 612–616). The passage furnishes other striking parallels to Dr. Schliemann's discoveries. The *tripod with ears containing 22 measures*, which is added to the woman for the

No. 242.—Six Blades of Silver (Homeric Talents?).

No. 243. No. 244. No. 245. No. 246.

Nos. 243 & 244.—Two Silver Vases, with caps, and rings for suspending cords.
No. 245.—A Silver Dish (φιάλη), with a boss in the centre.
No. 246.—A Silver Cup, 3¼ in. high and nearly 4 in. wide.

No. 247.—A small Silver Cover.

No. 248.—A small Cup of Electrum, (*i.e.* 4 parts of Gold to 1 of Silver).

No. 249.—Large Silver Jug, with handle, in which the small Ornaments were found.

No. 251. No. 250.

No. 250.—Has part of another Silver Vase welded to it by the fire.
No. 251.—Silver Vase with a quantity of copper fixed to its bottom by the fire.

VESSELS OF SILVER AND ELECTRUM.

I also found in the Treasure three great silver vases, the largest of which is above 8¼ inches high and nearly 8 inches in diameter, and has a handle 5½ inches in length and 3½ in breadth.* The second vase is 6·9 inches high and nearly 6 inches in diameter; another silver vase is welded to the upper part of it, of which, however, only portions have been preserved.† The third vase is above 7 inches high and above 6 inches in diameter; the foot of the vase has a great deal of copper fused onto it, which must have dripped from the copper objects contained in the Treasure during the conflagration.‡ All of the three vases are perfectly round below, and therefore cannot stand upright without resting against something.

I found, further, a silver goblet above 3⅓ inches high, the mouth of which is nearly 4 inches in diameter; also a silver flat cup or dish (φιάλη) 5½ inches in diameter, and two beautiful small silver vases of most exquisite workmanship. The larger one, which has two rings on either side for hanging it up by strings, is nearly 8 inches high with its hat-shaped lid, and 3½ inches in diameter across the bulge. The smaller silver vase, with a ring on either side for suspension by a string, is about 6¾ inches high, with its lid, and above 3 inches broad. §

Upon and beside the gold and silver articles, I found thirteen copper lances, from nearly 7 to above 12½ inches in length, and from above 1½ to 2½ inches broad at the broadest point; at the lower end of each is a hole, in which, in most cases, the nail or peg which fastened the lance to the wooden handle is still sticking. The pin-hole is clearly visible in a lance-head which the conflagration

* See Plate XVIII., No. 249.

† Ibid., No. 250.

‡ Ibid., No. 251.

§ For these four vessels see Plate XVII., Nos. 243–246. The silver bottles, with the caps and the side-rings to both, remind us of modern travelling flasks.—[Ed.]

No. 252. No. 253. No. 254. No. 255. No. 256.

Trojan Lance-Heads of Copper.—TR.

No. 256. Copper Lance and Battle-Axe welded together by the Conflagration. The Pin-hole of the Lance is visible.—TR.

No. 257. No. 258. No. 259. No. 25c.

Trojan Battle-Axes of Copper.—TR.

Nos. 258 and 260 have pieces of other weapons welded onto them by the fire.

has welded to a battle-axe. The Trojan lances were therefore quite different from those of the Greeks and Romans, for the latter stuck the shaft into the lance-head, the former fastened the head into the shaft.

I also found fourteen of those copper weapons, which are frequently met with here, but which have never been discovered elsewhere; at one end they are pointed but blunt, and at the other they end in a broad edge. I formerly considered them to be a species of lance, but now after mature consideration I am convinced that they could have been used only as battle-axes. They are from above 6 to above 12 inches in length, from nearly ½ to above ¾ of an inch thick, and from above 1 to nearly 3 inches broad; the largest of them weighs 1365 grammes (about 3 lbs. avoirdupois). The following cut shows an axe more like those of later ages.

No. 261. Trojan Battle-axe. —Tr.

There were also seven large double-edged copper daggers, with a handle from about 2 to 2¾ inches long, the end of which is bent round at a right angle. These handles must at one time have been encased in wood, for if the cases had been made of bone they would still have been wholly or partially preserved. The pointed handle was inserted into a piece of wood, so that the end projected about half an inch beyond it, and this end was simply bent round. (See page 332.) The largest of these daggers is 10⅔ inches in length and above 2 inches broad at the broadest part; a second dagger, which is above 1¾ inch broad, has the point broken off, and is now less than 9 inches long, but appears to have been 11 inches; a third dagger is 8⅔ inches long, and measures above 1¼ inch at the broadest point; a fourth has become completely curled up in the conflagration, but appears to have been above 11 inches long. Of the fifth, sixth, and seventh daggers I only discovered the fragments; these are from nearly 4 to 5⅓ inches in length. But in a packet of four

lances and battle-axes, which have been welded together in the heat of the fire, I believe I can recognise another dagger.

Of common one-edged knives I only found one in the Treasure; it is above 6 inches in length. I also found a piece of a sword which is $8\frac{2}{3}$ inches long and nearly 2 inches

No. 262.

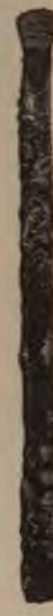
No. 263.

No. 264.

No. 265.

No. 266.

No. 267.



No. 268.

Nos. 262, 263, 264, 266, Trojan Two-edged Copper Daggers, with hooked Stems that have been fastened into Wooden Handles; No. 264 is doubled up by the Conflagration. No. 265, Weapons molten together. No. 267, a Copper Sword-Blade, with a sharp edge at the end. No. 268, a Four-sided Copper Bar, ending in a sharp edge.—TR.

broad: also a four-cornered copper bar ending in an edge; it is nearly 15 inches long, and also appears to have served as a weapon.

As I found all these articles together, forming a rectangular mass, or packed into one another, it seems to be certain that they were placed on the city wall in a wooden chest (*φωριαμός*), such as those mentioned by

Homer as being in the palace of King Priam.* This appears to be the more certain, as close by the side of these articles I found a copper key above 4 inches long, the head of which (about 2 inches long and broad) greatly resembles a large safe-key of a bank. Curiously enough this key has had a wooden handle; there can be no doubt of this from the fact that the end of the stalk of the key is bent round at a right angle, as in the case of the daggers.

No. 269. Copper Key, supposed to have belonged to the Treasure-chest.—Tr.

It is probable that some member of the family of King Priam hurriedly packed the Treasure into the chest and carried it off without having time to pull out the key; that when he reached the wall, however, the hand of an enemy or the fire overtook him, and he was obliged to abandon the chest, which was immediately covered to a height of from 5 to 6 feet with the red ashes and the stones of the adjoining royal palace.

Perhaps the articles found a few days previously in a room of the royal palace, close to the place where the Treasure was discovered, belonged to this unfortunate person. These articles were a helmet, and a silver vase

* *Iliad*, XXIV. 228:—Ἦ, καὶ φωριαμῶν ἐπιθήματα κάλ' ἀνέῳγεν, where the "beautiful lids" remind us of the terra-cotta pattern which Dr. Schliemann takes for the inlaying of a chest. (No. 77, p. 129). In the *Iliad*, XVI., 221, Achilles opens the lid of the beautiful decorated chest (χηλοῦ δ' ἀπὸ πῶμ' ἀνέῳγεν καλῆς δαιδαλέης), to take out the goblet for pouring his libation. The contents of Priam's chests may also be well compared with the articles of the Treasure:—

"He chose twelve gorgeous shawls, twelve single cloaks,
As many rugs, as many splendid robes,
As many tunics; then of gold he took
Ten *talents* full; two tripods, burnished bright,
Four *caldrons*; then a *cup of beauty rare*,
A rich possession, which the men of Thrace
Had given, when there he went ambassador;
E'en this he spared not, such his keen desire
His son to ransom."—[Ed.]

7 inches high and 5½ inches broad, containing an elegant cup of electrum 4⅓ inches high and 3½ inches broad. The helmet was broken in being taken out, but I can have it mended, as I have all the pieces of it. The two upper

No. 270. No. 271.
Cups of Electrum and Silver. Found in the Palace, near the Treasure, 270 inside 271.

Nos. 272–275. Pieces of Helmet-crests found in a Room of the Palace.

portions, composing the crest (φάλος), are uninjured. Beside the helmet, as before, I found a curved copper pin, nearly 6 inches in length, which must have been in some way attached to it, and have served some purpose. (Compare No. 192, p. 281.)

At 5 or 6 feet above the Treasure, the successors of the Trojans erected a fortification wall 20 feet high and 6 feet broad, composed of large hewn and unhewn stones and earth; this wall extends to within 3¼ feet of the surface of the hill.

That the Treasure was packed together at terrible risk of life, and in the greatest anxiety, is proved among other things also by the contents of the largest silver vase,

Nos. 276 and 277.—THE TWO GOLDEN DIADEMS (πλεκταὶ ἀναδέσμαι).

at the bottom of which I found two splendid gold diadems (*κρήδεμνα*)*; a fillet, and four beautiful gold ear-rings of most exquisite workmanship: upon these lay 56 gold ear-rings of exceedingly curious form and 8750 small gold rings, perforated prisms and dice, gold buttons, and similar jewels, which obviously belonged to other ornaments; then followed six gold bracelets, and on the top of all the two small gold goblets.†

The one diadem consists of a gold fillet, $21\frac{2}{3}$ inches long and nearly $\frac{1}{2}$ an inch broad, from which there hang on either side seven little chains to cover the temples, each of which has eleven square leaves with a groove; these chains are joined to one another by four little cross chains, at the end of which hangs a glittering golden idol of the tutelar goddess of Troy, nearly an inch long. The entire length of each of these chains, with the idols, amounts to $10\frac{1}{4}$ inches. Almost all these idols have something of the human form, but the owl's head with the two large eyes cannot be mistaken; their breadth at the lower end is about $\frac{9}{10}$ of an inch. Between these ornaments for the temples there are 47 little

* The diadem discovered by Dr. Schliemann can scarcely have been the *κρήδεμνον* of Homer, which was a large veil or mantilla, such, for instance, as the sea-goddess Ino gives to Ulysses, to buoy him up on the water (*Od.* v. 346). This diadem would rather seem to be, as Mr. Gladstone has suggested, the *πλεκτὴ ἀναδέσμη*, which Andromache casts from her head in her mourning for Hector, where the order of the words implies that it was worn over the *κρήδεμνον*. *Il.* XXII. 469–471:—

> Τῆλε δ' ἀπὸ κρατὸς βάλε δέσματα σιγαλόεντα,
> Ἄμπυκα κεκρύφαλόν τε ἰδὲ πλεκτὴν 'ἀναδέσμην
> Κρήδεμνόν θ', ὅ ῥά οἱ δῶκε χρυσέη 'Αφροδίτη.

> "Far off were flung the adornments of her head,
> The net, the *fillet*, and the *woven band*,
> The nuptial-veil by golden Venus given."- [Ed.]

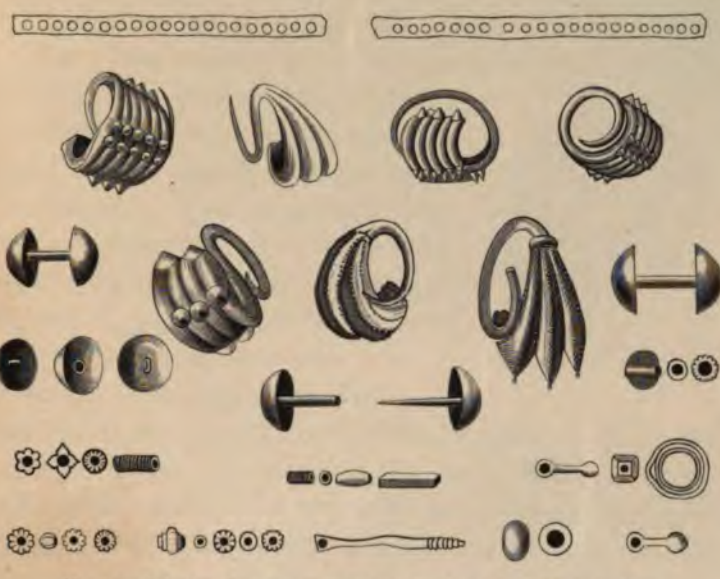
Our illustration (Plate XIX., Nos. 276, 277) represents one diadem as set up by Dr. Schliemann, and the other as it might have been worn on the head of a Trojan lady.—[Ed.]

‡ These objects are more fully described, and figured, in the following pages.

pendant chains adorned with square leaves; at the end of each little chain is an idol of the tutelary goddess of Ilium, about ¾ of an inch long; the length of these little chains with the idols is not quite 4 inches.

The other diadem is 20 inches long, and consists of a gold chain, from which are suspended on each side eight chains completely covered with small gold leaves, to hang down over the temples, and at the end of every one of the sixteen chains there hangs a golden idol 1¼ inch long, with the owl's head of the Ilian tutelary goddess. Between these ornaments for the temples there are likewise 74 little chains, about 4 inches long, covered with gold leaves, to hang down over the forehead; at the end of these chains there hangs a double leaf about ¾ of an inch long.

The fillet ἄμπυξ is above 18 inches long and ⅖ of an inch broad, and has three perforations at each end. Eight quadruple rows of dots divide it into nine compartments, in each of which there are two large dots; and an uninterrupted row of dots adorns the whole edge. Of the four ear-rings only two are exactly alike. From the upper part, which is almost in the shape of a basket, and is ornamented with two rows of decorations in the form of beads, there hang six small chains on which are three little cylinders;



No. 278.—Selection from the small Golden Jewels found in the Silver Jug.

No. 279.—Golden Fillet (ἄμπυξ), above 18 inches long.

No. 280.—Four Golden Ear-rings, or Tassels (θύσανοι), each 3¼ inches long.

JEWELS OF GOLD.

Of the six gold bracelets, two are quite simple and closed, and are about $\frac{1}{5}$ of an inch thick; a third is likewise closed, but consists of an ornamented band $\frac{1}{2\,5}$ of an inch thick, and $\frac{1}{4}$ of an inch broad. The other three are double, and the ends are turned round and furnished with a head. The princesses who wore these bracelets must have had unusually small hands, for they are so small that a girl of ten would have difficulty in putting them on.

No. 281.
Six golden Bracelets welded together by the conflagration.—[Tr.]

The 56 other gold ear-rings are of various sizes, and three of them appear to have also been used by the princesses of the royal family as finger-rings.* Not one of the ear-rings has any resemblance in form to the Hellenic, Roman, Egyptian, or Assyrian ear-rings; 20 of them end in four leaves, ten in three leaves, lying beside one another and soldered together, and they are thus extremely like those ear-rings of gold and electrum which I found last year at a depth of 9 and 13 meters (29½ and 42½ feet). Eighteen other ear-rings end in six leaves; at the commencement of these there are two small studs,

Τῆς ἑκατὸν θύσανοι παγχρύσεοι ἠερέθονται,
Πάντες ἐϋπλεκέες, ἑκατόμβοιος δὲ ἕκαστος.

"all around
A hundred tassels hung, rare works of art,
All gold, each one a hundred oxen's price."

Again, when Hera adorns herself to captivate Jove, her zone is fringed with a hundred tassels, and her *ear-rings* are described in terms corresponding exactly to the *triple leaves* seen on some of Schliemann's (*Iliad*, XIV. 181–3):—

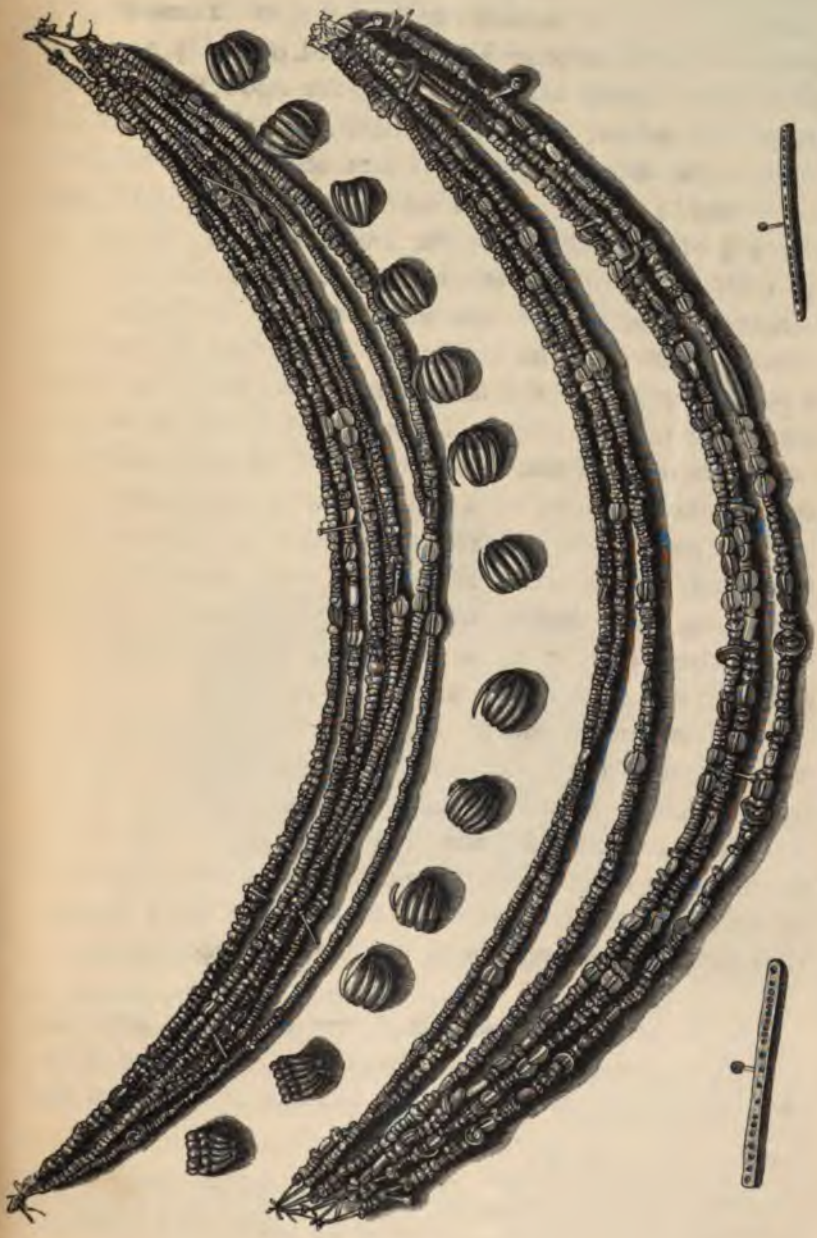
Ζώσατο δὲ ζώνην ἑκατὸν θυσάνοις ἀραρυῖαν,
Ἐν δ' ἄρα ἕρματα ἧκεν ἐϋτρήτοισι λοβοῖσιν
Τρίγληνα μορόεντα· χάρις δ' ἀπελάμπετο πολλή.

"Her zone, from which a hundred tassels hung,
She girt about her; and, *in three bright drops*,
Her glittering gems suspended from her ears;
And all around her grace and beauty shone."—[Ed.]

* Some of these are shown on Plate XX., No. 278.

in the centre two rows of five small studs each, and at the end three small studs. Two of the largest rings, which, owing to the thickness of the one end, certainly cannot have been used as ear-rings, and appear to have been finger-rings only, terminate in four leaves, and at the commencement of these there are two, in the middle three, and at the end again two small studs. Of the remaining ear-rings two have the form of three, and four the form of two, beautifully ornamented serpents lying beside one another.

Besides the ear-rings, a great number of other ornaments strung on threads, or fastened on leather, had been put into the same large silver vase; for above and below them, as already said, I found 8750 small objects;* such as gold rings, only $\frac{1}{8}$ of an inch in diameter; perforated dice, either smooth or in the form of little indented stars, about $\frac{1}{6}$ of an inch in diameter; gold perforated prisms $\frac{1}{10}$ of an inch high and $\frac{1}{8}$ of an inch broad, decorated longitudinally with eight or sixteen incisions; small leaves about $\frac{1}{3}$ of an inch long, and $\frac{1}{6}$ of an inch broad, and pierced longitudinally with a hole for threading them; small gold pegs $\frac{1}{3}$ of an inch long, with a button on one side, and a perforated hole on the other; perforated

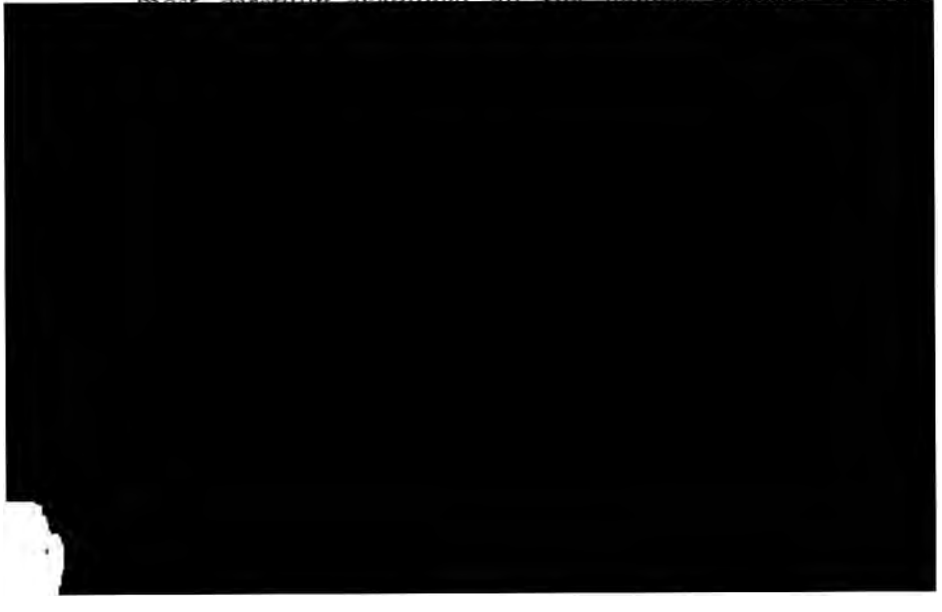


No. 282. THE TREASURE OF PRIAM.
4510 Small Jewels of Gold.

(αὐλίσκος) nearly ¼ of an inch long, and from the other a pin (ἔμβολον) of the same length, and the pin is merely stuck into the tube to form the double stud. These double buttons or studs can only have been used, probably, as ornament upon leather articles, for instance upon the handle-straps (τελαμῶνες) of swords, shields, or knives. I found in the vase also two gold cylinders above $\frac{1}{10}$ of an inch thick and ¾ of an inch long; also a small gold peg above ⅘ of an inch in length, and from $\frac{6}{100}$ to $\frac{8}{100}$ of an inch thick; it has at one end a perforated hole for hanging it up, and on the other side six encircling incisions, which give the article the appearance of a screw: it is only by means of a magnifying glass that it is found not to be really a screw. I also found in the same vase two pieces of gold, one of which is ⅐ of an inch, the other above 2 inches, long; each of them has 21 perforations.*

The person who endeavoured to save the Treasure had fortunately the presence of mind to stand the silver vase, containing the valuable articles described above, upright in the chest, so that not so much as a bead could fall out, and everything has been preserved uninjured.

My esteemed friend M. Landerer, of Athens, a chemist well known through his discoveries and writings, who has



Apollo, as far as the Scæan Gate, I have entirely cut away the upper wall, which rested partly upon the gate, to an extent of 56 feet. Visitors to the Troad can, however, still see part of it in the north-western earth-wall opposite the Scæan Gate. I have also broken down the enormous block of earth which separated my western and north-western cutting from the Great Tower; but in order to do this, I had to pull down the larger one of my wooden houses, and I had also to bridge over the Scæan Gate, so as to facilitate the removal of the *débris*. The result of this new excavation is very important to archæology; for I have been able to uncover several walls, and also a room of the Royal Palace, 20 feet in length and breadth, upon which no buildings of a later period rest.

No. 283. Terra-cotta Vessel in the shape of a Cask. From the Palace (8 M.).

Of the objects discovered there I have only to mention an excellently engraved inscription found upon a square piece of red slate, which has two holes not bored through it and an encircling incision, but neither can my learned friend Émile Burnouf nor can I tell in what language the inscription is written.* Further, there were some interesting terra-cottas, among which is a vessel, quite the form of a modern cask, and with a tube in the centre for pouring

* No. 5, on p. 24. (See Appendix.)

in and drawing off the liquid. There were also found upon the wall of Troy, 1¾ feet below the place where the Treasure was discovered, three silver dishes (φιάλαι), two of which were broken to pieces in digging down the

No. 284. Large Silver Vase found in the House of Priam (8 M.).

débris; they can, however, be repaired, as I have all the pieces.* These dishes seem to have belonged to the Treasure, and the fact of the latter having otherwise escaped our pickaxes is due to the above-mentioned large copper vessels which projected, so that I could cut everything out of the hard *débris* by means of a knife.

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* These silver φιάλαι, as shown in the photographs, are too much battered to be worth engraving; but we give a very fine large silver vase, which was found in a room of the Palace.—[ED.]

I now perceive that the cutting which I made in April 1870 was exactly at the proper point, and that if I had only continued it, I should in a few weeks have uncovered the most remarkable buildings in Troy, namely, the Palace of King Priam, the Scæan Gate, the Great Surrounding Wall, and the Great Tower of Ilium; whereas, in consequence of abandoning this cutting, I had to make colossal excavations from east to west and from north to south through the entire hill in order to find those most interesting buildings.

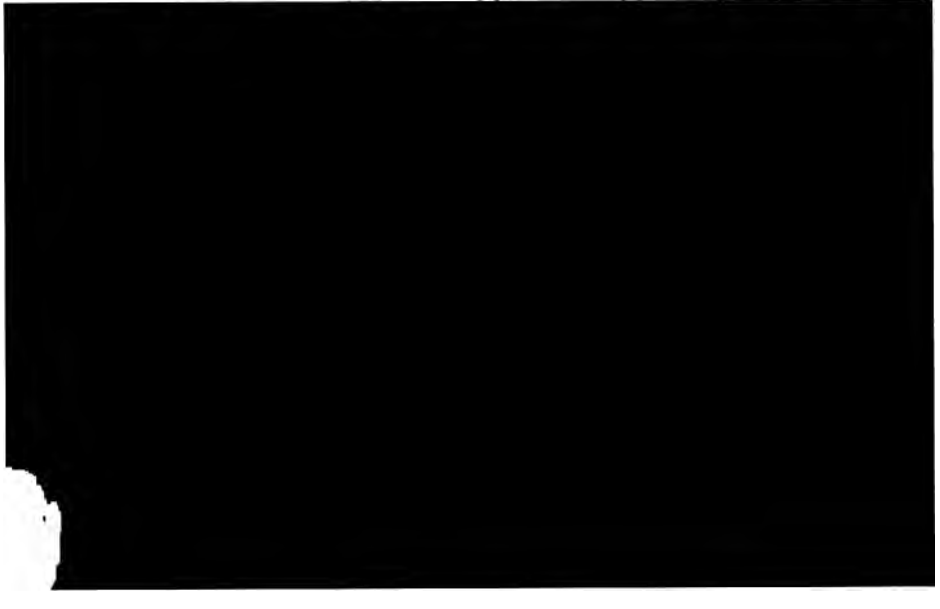
In the upper strata of the north-western and western excavations we came upon another great quantity of heads of beautiful terra-cotta figures of the best Hellenic period, and at a depth of 23 feet upon some idols, as well as the upper portion of a vase with the owl's face and a lid in the form of a helmet. Lids of this kind, upon the edge of which female hair is indicated by incisions, are frequently found in all the strata between 4 and 10 meters (13 and 33 feet) deep, and as they belong to vases with owls' faces, the number of lids gives us an idea of the number of the vases with the figure of the owl-headed Athena, which existed here in Troy.

But Troy was not large. I have altogether made twenty borings down to the rock, on the west, south-west, south, south-east and east of the Pergamus, directly at its foot or at some distance from it, on the plateau of the Ilium of the Greek colony. As I find in these borings no trace either of fragments of Trojan pottery or of Trojan house-walls, and nothing but fragments of Hellenic pottery and Hellenic house-walls, and as, moreover, the hill of the Pergamus has a very steep slope towards the north, the north-east, and the north-west, facing the Hellespont, and is also very steep towards the Plain, the city could not possibly have extended in any one of these directions. I now most emphatically declare that the city of Priam cannot have extended on any one side

beyond the primeval plateau of this fortress, the circumference of which is indicated to the south and south-west by the Great Tower and the Scæan Gate, and to the north-west, north-east and east by the surrounding wall of Troy. The city was so strongly fortified by nature on the north side, that the wall there consisted only of those large blocks of stone, loosely piled one upon another in the form of a wall, which last year gave me such immense trouble to remove. This wall can be recognized at once, immediately to the right in the northern entrance of my large cutting, which runs through the entire hill.

I am extremely disappointed at being obliged to give so small a plan of Troy; nay, I had wished to be able to make it a thousand times larger, but I value truth above everything, and I rejoice that my three years' excavations have laid open the Homeric Troy, even though on a diminished scale, and that I have proved the Iliad to be based upon real facts.

Homer is an epic poet, and not an historian: so it is quite natural that he should have exaggerated everything with poetic licence. Moreover, the events which he describes are so marvellous, that many scholars have long doubted the



and did not extend beyond it, till the time when Theseus added the twelve villages, and the city was consequently named in the plural Ἀθῆναι. It is very likely that the same happened to the town of Mycenæ (Μυκῆναι), which Homer describes as being rich in gold, and which is also spoken of in the singular, εὐρυάγυια Μυκήνη.*

But this little Troy was immensely rich for the circumstances of those times, since I find here a treasure of gold and silver articles, such as is now scarcely to be found in an emperor's palace; and as the town was wealthy, so was it also powerful, and ruled over a large territory.

The houses of Troy were all very high and had several storeys, as is obvious from the thickness of the walls and the colossal heaps of *débris*. But even if we assume the houses to have been of three storeys, and standing close by the side of one another, the town can nevertheless not have contained more than 5000 inhabitants, and cannot have mustered more than 500 soldiers; but it could always raise a considerable army from among its subjects, and as it was rich and powerful, it could obtain mercenaries from all quarters.

As I do not find in my shafts (that is, beyond the hill itself) a trace of earthenware belonging to the successors of the Trojans up to the time of the Greek colony, it may with certainty be assumed that Troy had increased in size at Homer's time only to the small amount of what was added through the heaps of rubbish caused by the destruction of the city. Homer can *never* have seen Ilium's Great Tower, the surrounding wall of Poseidon and Apollo, the Scæan Gate or the Palace of King Priam, for all these monuments lay buried deep in heaps of rubbish, and he made no excavations to bring them to light. He knew of these monuments of immortal fame only from hearsay, for the tragic fate of ancient Troy was

* *Iliad*, IV. 52.

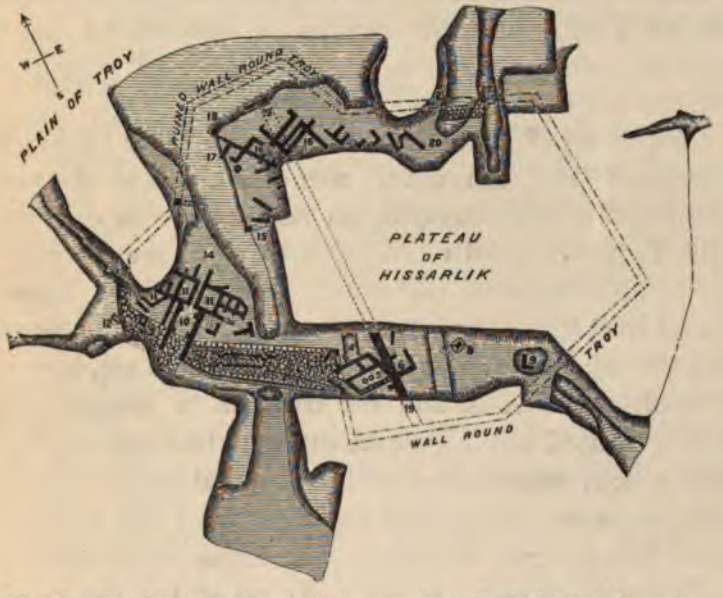
then still in fresh remembrance, and had already been for centuries in the mouth of all minstrels.*

Homer rarely mentions temples, and, although he speaks of the temple of Athena, yet, considering the smallness of the city, it is very doubtful whether it actually existed. It is probable that the tutelar goddess at that time possessed only the sacrificial altar which I discovered, and the crescent form of which greatly resembles the upper portion of the ivory idol found in the lowest strata,† as well as the one end of the six talents contained among the Treasure.

The position, size, and depth of all my shafts will be found most accurately specified on my plan of the Ilium of the Greek colony;‡ I therefore refrain from repeating these statements here, so as not to weary the reader. I also add an accurate plan of my excavations,§ a plan of the Scæan Gate and of the Great Tower of Ilium,‖ and lastly, a plan of the city of Troy at the time of the great destruction (Plan IV.).

The Scæan Gate gives us the age of the royal edifice in front of which it stands, and of the vessels of pottery which are found in that house. This earthenware is indeed better than what is generally found here at a depth of from 7 to 10 meters (23 to 33 feet), but it is exactly similar; and

belong to the Trojan people. These strata are composed of red, yellow, and occasionally black wood-ashes, and every stone found there bears the marks of the fearful heat to which it has been exposed. In these strata we never meet with those brilliant black plates and dishes, with a long horizontal ring on either side, found at the depth of from 13 to 16 meters (42½ to 52½ feet), nor do we meet with the vases with two long tubes on either side. Besides



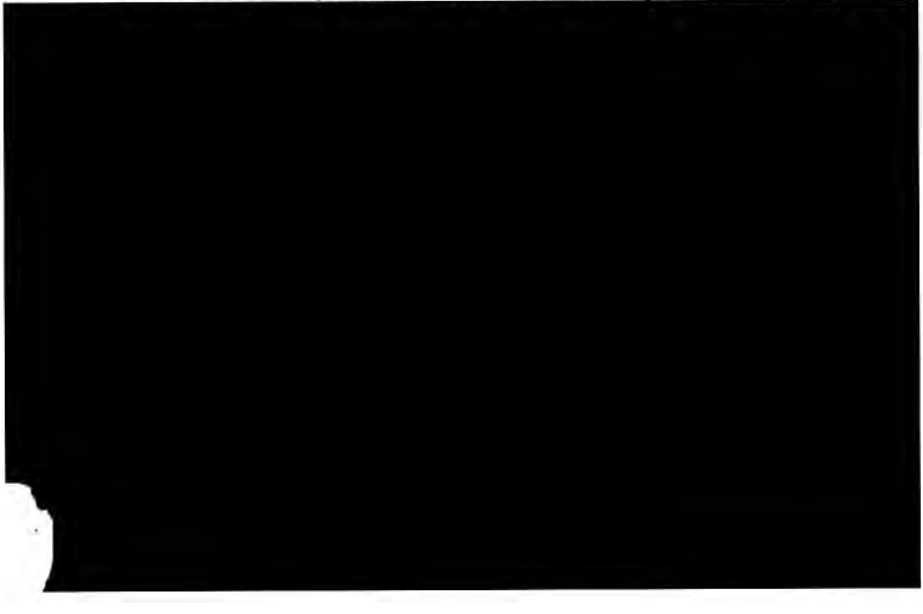
Plan IV.—Plan of Troy at the Epoch of Priam, according to Dr. Schliemann's Excavations.

the vessels in the lowest strata are entirely different in quality and in form from those found at a depth of from 23 to 33 feet, so that they certainly cannot have belonged to the same people. But they belong, at all events, to a kindred Aryan nation, as these too possessed in common with the Trojans the whorls ornamented with Aryan religious symbols, and also idols of the Ilian Athena. I formerly believed that the most ancient people who inhabited this site were the Trojans, because I fancied that among their ruins I had found the *δέπας ἀμφικύπελλον*, but I now

perceive that Priam's people were the succeeding nation, because in their ruins I have discovered the actual δέπας ἀμφικύπελλον, made of gold and also of terra-cotta, and likewise the Scæan Gate.

Several geologists, who have visited me here, maintain that the stratum of scoriæ, which runs through the greater part of the hill, at an average depth of 9 meters (29½ feet), has been formed by melted lead and copper ore, quantities of which must have existed here at the time of the destruction of Troy; and this opinion is also shared by the engineer, Adolphe Laurent, who has returned to help me with my last works, and to make some new plans.

Strabo says,* "No trace of the ancient city (Troy) has been preserved. This is very natural; for, as all the towns round about were desolated, yet not completely destroyed, while Troy was razed to the ground, so all the stones were carried off to renovate the others. Thus, at least, Archæanax of Mitylene is said to have built a wall round Sigeum with the stones." These statements of Strabo are, however, completely erroneous, and the tradition of antiquity, that Troy was razed to the ground, can only be explained by its having been buried deep beneath colossal masses of wood-ashes and stone, which were built over by a new town; the



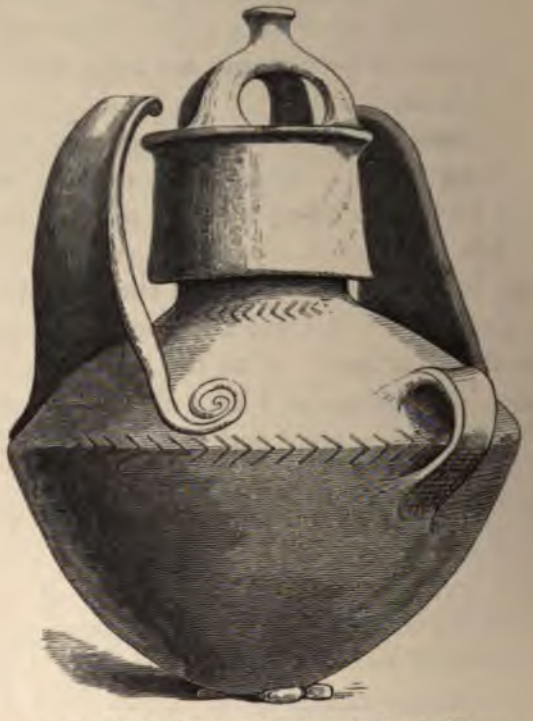
firm conviction that Troy was not to be found upon the primary soil, but at a depth of from 23 to 33 feet, I ceased to break down any house-wall in these strata, so that in my excavations of this year a number of Trojan houses have been brought to light. They will still stand for centuries, and visitors to the Troad may convince themselves that the stones of the Trojan buildings can *never* have been used for building other towns, for the greater part of them are still *in situ*. Moreover, they are small, and millions of such stones are to be found upon all the fields of this district.

Valuable stones, such as those large flags which cover the road leading from the Scæan Gate to the Plain, as well as the stones of the enclosing wall and of the Great Tower, have been left untouched, and not a single stone of the Scæan Gate is wanting. Nay, with the exception of the houses which I myself destroyed, it would be quite possible to uncover the "carcasses" of all the houses, as in the case of Pompeii. The houses, as I have already said, must have been very high, and a great deal of wood must have been used in their construction, for otherwise the conflagration could not have produced such an enormous quantity of ashes and rubbish.

In my excavations of 1871 and 1872, at a depth of from 7 to 10 meters (23 to 33 feet), I found only house-walls composed of sun-dried bricks; and, as anyone may convince himself by examining the houses which I have uncovered, this style of building was almost exclusively met with during that year. It is only the buildings by the side of the Scæan Gate, and a few houses in the depths of the Temple of Athena, that are made of stones and earth.

As may be seen from my plan of the site of Troy, I have excavated two-thirds of the entire city; and, as I have brought to light the Great Tower, the Scæan Gate, the city wall of Troy, the royal palace, the sacrificial altar of the Ilian Athena, and so forth, I have uncovered

the grandest buildings, and, in fact, the best part of the city. I have also made an exceedingly copious collection of all the articles of the domestic life and the religion of the Trojans; and therefore it is not to be expected that science would gain anything more by further excavations. If, however, my excavations should at any time be continued, I urgently entreat those who do so to throw the *débris*



No. 285. Splendid Terra-cotta Vase from the Palace of Priam.

This is the largest vase of the type frequent in the ruins, with two small handles and two great upright wings. The *cover* was found near it.

of their diggings from the declivity of the hill, and *not* to fill up the colossal cuttings which I have made with such infinite trouble and at such great expense, for they are of great value to archæology, inasmuch as in these cuttings all the strata of *débris*, from the primary soil up to the surface of the hill, can be examined with little trouble.

On the north side of the hill, I have now also uncovered several house-walls at a depth of 13 meters (42½ feet), and also the beginning of that remarkable wall of fortification already mentioned, the continuation of which may be seen in the labyrinth of house-walls in the depths of the Temple of Athena. On the north side, above the primary soil, I have also brought to light a portion of the pavement already mentioned, composed of small, round white sea-pebbles, below which are the calcined ruins of a building which formerly stood there.

Among some very remarkable terra-cottas discovered since my last report, I must mention two jugs found on the north side, at a depth of from 23 to 26 feet, each of which has two upright necks standing side by side, but their handles are united. One of them has also beside the mouths two small elevations, which may probably indicate eyes. Of a third jug of this kind, I only found the upper portion. I must also mention an exceedingly curious cup, discovered at a depth of 4 meters (13 feet), which consists of a tube resting upon three feet and ending in one large and

No. 285. Curious double-necked Jug (8 M.).

No. 287. Terra-cotta Vessel consisting of three Goblets rising out of a tube on three feet (4 M.).—[6 M. in Atlas.]

two small goblets; the larger goblet is connected with the opposite side of the tube by a handle. At the same depth I met with a large vase, from which projects a separate small vase; it is ornamented with incisions, and has three feet and two very pretty handles and rings for hanging it up. I found likewise, at the depth of 13 feet, a vase with two female breasts, two large handles and engravings resembling letters. Among other extremely curious terra-cottas, I must also mention three pots with three rows of perforations; they have the usual handle on one side and three feet on the other; also three large vases with

No. 288. Terra-cotta Vessel in the form of a Pig, with legs too short to stand it on (7 M.).

No. 289. A round Terra-cotta, stamped with Hieroglyphics (1½ M.).

perforations right round, on all sides from the bottom to the top; their use is a riddle to me; can they have served as bee-hives?* Also a vessel in the form of a pig with four feet, which are, however, shorter than the belly, so that the vessel cannot stand upon them; the neck of the vessel, which is attached to the back of the pig, is connected with the hinder part by a handle. I further found a pot in the form of a basket with a handle crossing the mouth, and with a tube in the bulge for drawing off the liquid. Also two terra-cotta funnels, at a depth of 10 feet, with a letter, which I have repeatedly met with on some of the terra-cottas of which I have given drawings,

* Certainly not; but they may have served for burning charcoal or incense.—[ED.]

and which therefore will probably be deciphered. At a depth of 5 feet I found one of those round twice-perforated terra-cottas with a stamp, in which there are Egyptian hieroglyphics; also a dozen of the same articles in the stamps of which are a crowned head, a bird, a dog's head, a flying man or an eagle and a stag. At a depth of 16½ feet, I found the handle of a cup with the beautifully modelled head of a bull, which probably represents the *βοῶπις πότνια Ἥρη*:* however, this cannot be proved, for up to that time I had never found an idol with the head of an ox. Neither can I prove that the terra-cottas here frequently met with, in the form of horses' heads, represent the mother of Hera, Cybele or Rhea; but it is very likely,

No. 290. Fragment of a Terra-cotta Vessel, in the shape of a Horse's Head (¼ M.).

for, as is well known, in Phrygia she was represented with a horse's head. Terra-cotta idols of the Ilian Athena are rarely met with; but we daily find marble idols of this goddess, most of which have almost a human form. We also frequently come upon oblong flat pieces of rough marble, upon which the owl's face of the goddess is more or less deeply engraved. It is often so finely scratched that the aid of a magnifying glass is required to convince one that it actually exists; we found several such pieces of marble where the owl's head was painted in a black colour. Since I have come to the conclusion that they are idols of the tutelary divinity of Troy, I have carefully collected

* See the similar example, No. 208, p. 294.

them; but in 1871 and 1872 seven-eighths of all the marble idols must have escaped my notice, for at that time I had no idea of their significance.

In excavating the ground upon which my wooden house had stood, we found, at a depth of from 9 to 19 inches, eighteen copper and two silver medals; one of the latter is of Marcus Aurelius. The other is a tetradrachm of the island of Tenedos; on the obverse, to the right, is the head of Jupiter, to the left that of Juno, both having one neck in common, like the heads of Janus. The head of Jupiter is crowned with laurels, that of Juno has a wreath or crown. Upon the reverse of the coin there is a laurel wreath round the edge, and in the centre a large double axe, above which stands the word ΤΕΝΕΔΙΩΝ: below and to the right of the handle of the double axe there is a winged Eros, who is holding up an object which it is difficult to distinguish; to the left is a bunch of grapes and a monogram, which looks like the letter A.

Of the copper coins, five are of Alexandria Troas, two of Ophrynium, one of Tenedos, two of Abydos, and one of Dardania. Two have on one side the bust of Julia Domna, with the inscription ΙΟΥΛΙΑ ΣΕΒΑΣΤΗ; one of these has on the reverse the full-length figure of this empress with

the flags of stone on the north-western half of the road which have been less exposed to the heat, may still last many centuries.

The following inscriptions were found at a depth of from 19 inches to $3\frac{1}{2}$ feet below my wooden house.

.....
.....
.....ΣΑ.....
..ΕΣΑΙ.....ΝΟΥ.....
.....ΑΒΟΥΚΟΛ.....ΕΤΡΑΝΦ.....
....ΣΚΑΤΑΠΛΗΘΟΣΕΙΣΟΙΝΙΣΤΡΑ.....
..ΤΩΝ ΕΨΗΦΙΣΘΑΙ ΣΚΑΔΡΕΙΣΟ.....
..ΣΑΝΔΡΑΣ ΤΟΥΣ ΣΥΝΘΗΣΟΜΕΝ.....
....ΕΡΟΝΥΠΗΡΧΕΝΚΑΙΣΤΗΛΩ.....
....ΙΕΝ ΤΩΤΩΝ ΣΑΜΟΘΡΑΚ.....
....ΙΣΑΠΟ ΚΑΘΙΣΤΑΜΕΝΟ.....
....ΕΝΟΥΣΤΗΝ ΣΥΝΘΕΣΙΝ.....
.....ΜΟΛΟΓΙΑΣΤΟΑΝΤΙΓΡΑ.....
.....ΟΙΚΗΣΟΝΤΕΣΗΡΕΘΗΣ.....
.....ΟΠΕΙΘΟΥΜΙΛΗΣΙΟΣ.....
.....ΘΟΥΔΙΟΠΕΙΔΗΣΒ.....
..... ΤΙΦΑΝΗΣΑΠ.....

.....
.....σα.....
....εσαι.....νου(ς...
.....αβουκολ.....ετραν φ...
....ς κατὰ πλῆθος εἰς οἴνιστρα.....
..των ἐψηφίσθαι Σκαδρεῖς ο.....
..ς ἀνδρὰς τοὺς συνθησομέν(ους....
....ερον ὑπῆρχεν καὶ στηλω .....
....ι ἐν τῷ τῶν Σαμοθράκ(ων.....
....ις ἀποκαθισταμέν(ο.....
....ενους τὴν σύνθεσιν.....
.....ὁ)μολογίας τὸ ἀντίγρα(φον...
.....οἰκήσοντες ἠρέθησ(αν.....
.....Δι)οπείθου Μιλήσιος.....
.....θου Διοπείδης Β.....
.....Αν)τιφάνης Ἀπ.....

This inscription contains a contract for a settlement and gives the names of the men selected for founding it; Σκαδρεῖς is an unknown word, which has never before been met with.

\XN
ΩΣΧΙΛΙΑΣ
ΩΣΤΗΣ ΔΟΘΕΙΣΗΣ
ΕΙΓΕΝΤΕΚΑΙΟΥΕΛΑΒΟ
ΒΑΛΛΟΝΤΩΙΕΝΙΑΥΤΩ
ΤΗΝΣΥΝΕΔΡΕΙΑΝΟΥΚΑ
ΤΗΣΒΟΟΣΤΗΝΤΙΜΗΝΥ
ΤΩΓΚΡΕΩΝΤΑΣΛΟΙΓΑ
ΤΡΩΒΟΛΟΝΤΗΝΓΟΛΙΝΤΗΜ
ΚΑΣΑΝΤΟΥΣΤΟΚΟΥΣΤΟΥΣ
ΚΟΣΙΑΣΤΕΣΣΑΡΑΚΟΝΤΑΓΕ
ΘΕΤΟΣΔΙΑΚΟΣΙΑΣΤΕΣΣΑ
ΚΑΙΟΤΙΤΗΝΣΥΝΕΔΡΕΙΑΙ
ΤΕΙΛΑΝΓΕΝΤΑΚΟΣΙΑΣΚΑΙΤΗ
ΡΗΜΕΝΗΣΤΗΣΤΙΜΗΣΤΩΓΚΡΕ
ΤΑΔΥΟ

. . . . . ως χιλίας . . . . . .
. . . . . ε)ως τῆς δοθείσης . . . . . .
. . . . . ει πέντε καὶ οὗ ἐλαβο . . . . . .
. . . . το ἐπι)βάλλον τῶι ἐνιαυτῶ(ι . . . .
. . . . τὴν συνέδρειαν οὐ κα . . . . . .

that, notwithstanding the terrible danger to which we have been exposed owing to the continual hurricanes, during the last three years' gigantic excavations, no misfortune has happened, no one has been killed, and no one has even been seriously hurt.

In conclusion, I cannot refrain from most strongly recommending Nikolaos Saphyros Jannakis, of the neighbouring village of Renkoï, to all those who, sooner or later, may wish to make excavations in the Plain of Troy or in the neighbourhood. During all my excavations here, since April 1870, he has been my attendant, cook, and cashier. It is in the latter capacity especially that I find him incomparably useful on account of his honesty, which has been well tested, and also on account of his knowing the names and capabilities of every workman in the Troad. In addition to this, his size and herculean strength, his cleverness, and his thorough knowledge of the Turkish language, are excellently adapted for settling the difficulties which continually arise in reference to the excavations with the Turkish officials. I must also specially recommend my foreman Spiridion Demetrios of Athens, and Captain Georgios Tsirogiannis of Limme in Eubœa, for they have here learnt by long experience the easiest way of removing colossal masses of *débris*, and they have in addition the gift of command. I can also most strongly recommend my accomplished draughtsman, Polychronios Lempessis, of Salamis, who has here made all the drawings of my work from Plate 119 to 190.* Lastly, I can speak with the utmost satisfaction of my engineer Adolphe Laurent, who has made the ground plans for me from first to last.

* This refers, of course, to Dr. Schliemann's Atlas of photographic illustrations, of which all the most valuable are reproduced in the present translation in a greatly improved style of execution.—[Ed.]

NOTE A.

THE RIVER SIMOÏS.

As the present name of the Simoïs, *Dumbrek*, is not a Turkish word, some take it for a corruption of the name Thymbrius, and use it to prove that the river—which, flowing past the foot of the ruins of Ophrynium, runs through the north-eastern valley of the Plain of Troy, and falls into the Kalifatli Asmak, the very ancient bed of the Scamander, in front of Ilium—is the Thymbrius, and cannot possibly be the Simoïs.

To this I reply: that there is no example of a Greek word ending in *os* being rendered in Turkish by a word ending in a *k*; further that Dumbrek must certainly be a corruption of the two Turkish words طوڭ برق *Don barek*. *Don* signifies 'ice,' and *barek* the 'possession' or the 'habitation'; the two words therefore mean much the same thing as containing ice, and the name might be explained by the fact that the inundations caused by the Simoïs are frequently frozen over in winter, when the whole north-eastern plain forms a sheet of ice. Throughout antiquity, however, the river was called the Simoïs, for according to Strabo (XIII. 1. p. 103), the grove dedicated to Hector was situated on a hill near Ophrynium; according to Lycophron (*Cassandra*), the hero was buried in Ophrynium; and according to Virgil,* who is the most conscientious preserver of ancient traditions, Hector's tomb was situated in a little grove on the shores of the Simoïs.

[redacted]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
67	98	73	58	107	177	95	70	38	26		210			
125	149	202	298	110	221	198	74	75	42					
134	162	205		120	259	215	90	83	144					
430	197	328			400	334	91	154	148					
545	220				400		109	73	167					
1005	228				442		112		176					
	306				443		133		224					
	495				448		141		248					
	509				455		177		279					
					456		403		300					
					458		458		300					
					458		472		308					
					464		748		315					
					465				320					
					470				322					
					475				336					
					475				338					
					555				350					
									355					
									365					
									366					
									368					
									374					
									384					
									430					
									435					
									450					
									458					
									500					
									520					
									575					

* The *gramme* = 15·43235 *grains*; or, approximately, 15½ *grains*. The *ounce* (avoirdupois) = 437½ *grains*; and the *pound*, 16 oz., = 7000 grs.

NOTE B—*(continued)*.

the round stones found in the various depths of the Pergamus of Troy, and depths are in meters.)

7	8	9	10	11	12	13	14	15
169	102	223	145	555	485	190	135	332
186	150	224	146		1710	468	413	363
186	207	227	182			1475	450	447
189	244	372	190				485	475
219	254	390	214				505	557
229	257	420	225				1250	585
245	288	500	280				1852	680
266	295	852	310					3148
290	381		334					
291	385		341					
346	402		372					
369	402		450					
380	408		545					
384	429		605					
400	440		627					
435	472		755					
437	536							
468	551							
483	568							
491	620							
515	638							
534	658							
560	660							
569	712							
606	764							
632	825							
825	1145							
895	1160							
904	1232							
1005	1710							
1082	1950							

NOTE C.

MONSIEUR ERNEST CHANTRE, Assistant Director of the Museum in Lyon, has just sent me the result of the analysis of the Trojan weapons made by the celebrated chemist, M. Damour, of Lyon. I had drilled three weapons, and sent him the drillings.

No. 1.—Drillings from one of the battle-axes of the treasure.

Analysis.

	Grammes.	
	0·3020	
Deducting the sand contained in it	0·0160	
Analysed metal	0·2860	
		In 10·000 parts.
	Grammes.	
This consists of copper . .	0·2740	= 0·9580
„ „ tin . . .	0·0110	= 0·0384
	0·2850	= 0·9964

No. 2.—Drillings of another battle-axe of the treasure.

Analysis.

	Grammes.	
	0·2970	
Deducting the sand contained in it	0·0020	
Analysed metal	0·2950	
		In 10·000 parts.
	Grammes.	
This consists of copper . .	0·2675	= 0·9067
„ „ tin . .	0·0255	= 0·0864
	0·2930	= 0·9931

No. 3.—Drillings from a common two-edged axe, found at a depth of 3¼ feet, and therefore in the remains of the Greek colony.

Analysis.

	Grammes.
	0·5280
Deducting the sand contained in it	0·0070
Analysed metal	0·5210

	Grammes.	In 10·000 parts.
This consists of copper . .	0·4810	= 0·9232
„ „ tin . . .	0·0385	= 0·0739
	0·5195	= 0·9971

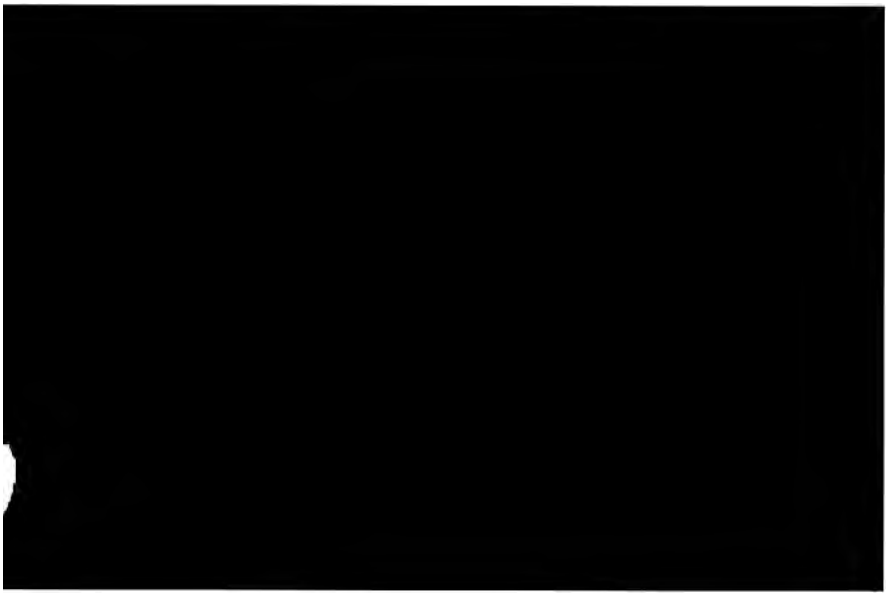
No. 4.—Drillings of one of the Trojan sling-bullets, externally covered with verdigris, and internally the colour of iron.

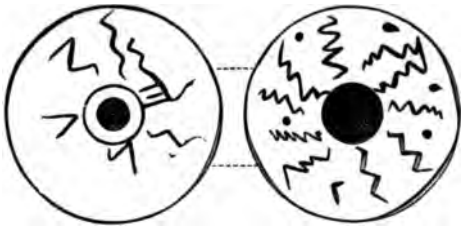
Analysis.

	Grammes.	In 10·000 parts.
Quantity of analysed metal .	0·2410	
Consisting of sulphur . .	0·0470	= 0·1950
„ „ copper . . .	0·1920	= 0·7966
„ „ iron . . .	0·0002	= 0·0008
„ „ quartzose . .	0·0005	= 0·0020
	0·2397	= 0·9944

DR. H. SCHLIEMANN.

Athens, January 1, 1874.





No. 291. An Inscribed Trojan Whorl (8 M.).

APPENDIX.

ON THE INSCRIPTIONS FOUND AT HISSARLIK.

BY THE EDITOR.

As soon as Dr. Schliemann's wonderful discoveries at Hissarlik were made known, one of the most important questions that arose in the mind of all scholars was:—Has he found any *Inscriptions*, to throw the certain light of written testimony on the language and ethnic affinities, the history and social condition, the religion, science, and literature, of the old inhabitants of the hill, whose records form as yet no part of ancient history?

Dr. Schliemann's private communications during the progress of his work had called forth the efforts of eminent Orientalists — such as Martin Haug, Émile Burnouf, and Max Müller—to attempt the discovery of true writing among the vast variety of strange and novel patterns impressed upon the terra-cotta whorls, balls, seals, vases, and other objects in his collection; for some of these bore a likeness to written characters which could hardly be deceptive.* It mattered not for this enquiry, by what name the habitations, whose successive strata were

* Dr. Schliemann's work records several interesting examples of his first impressions on this point, and he appears more often to have mistaken written characters for mere symbols or ornaments than the other way.

revealed, had been called of old. No one whose opi
was worth regarding disputed their very high antiq
which implied the great age of the objects found. A
even from its traditional claim to be the Ilium of Ho
the site lay in the track of the primitive migration
the Indo-European race from their cradle in the Eas
their settlements in the West; and not of one migra
only, but of their passage to and fro between the shor
Asia and of Europe; as well as upon the path of their c
merce and military expeditions, after they were settled in t
homes. For, lest we be misled by the arbitrary distinc
between the continents, which is stereotyped in the na
of Asia and Europe—that is, East and West—it mus
borne in mind that the Hellespont and Bosporus (as
latter name expresses) were *ferries* rather than sunde
seas, and the islands of the Ægean were stepping-sto
The close affinities of the early settlers on both shores
long since been proved; and, in particular, the presenc
the great Pelasgo-Hellenic or Græco-Italic family had b
traced on both. The very ancient habitation of the no
western parts of Asia Minor by the *Ionians*—the orie
name of the whole Hellenic race—long before their tr
tional colonization from the peninsula of Hellas—had b

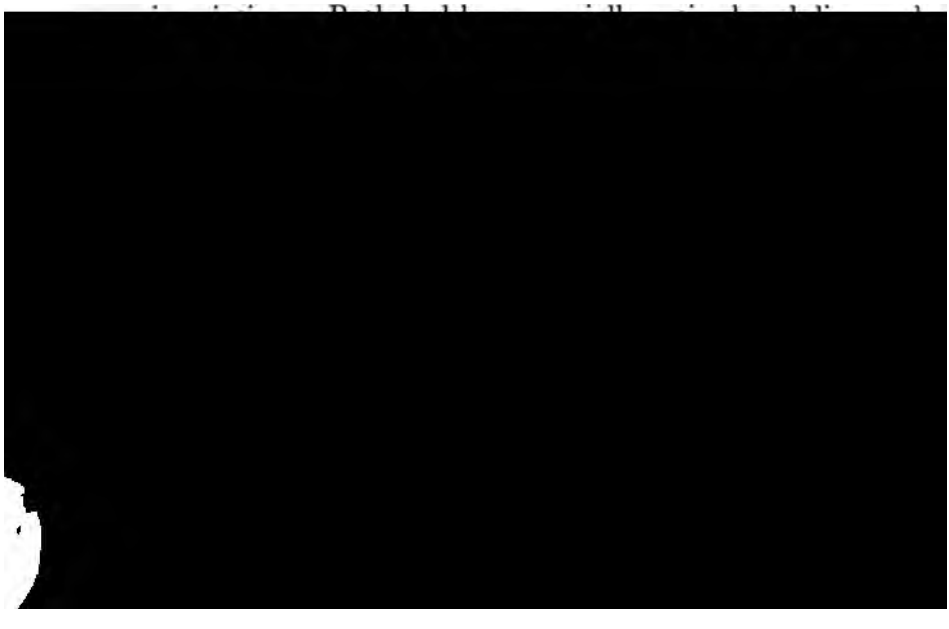
Thus, before the first trench was dug at Hissarlik, a clue was already supplied to the race of the primitive inhabitants, if any such had dwelt there, and to the nature of their language, if they had left any written records.

Among the patterns engraved upon the whorls and other terra-cottas, many were soon found, as Dr. Schliemann has fully shown, to be the most ancient sacred emblems of the Aryan race; and the discovery of these at all depths, below the ruins of Greek Ilium, attested the common Aryan descent of all the nations that had dwelt successively on the hill before the historic Grecian colony. The absence of any trace of Egyptian influence, and almost equally of Assyrian, seemed to attest an independent and very ancient Aryan civilization; while the general character of the works in terra-cotta, resembling those found in Cyprus and some of the islands of the Ægean, appeared to belong to the style which Professor Conze, of Vienna, had defined as the earliest Greek or European Indo-Germanic. The characters, which looked so exactly like writing, were certainly not hieroglyphs in any of their varieties; nor—though there were some cuneiform marks—was there any true cuneiform writing; while the few semblances of Phœnician characters were soon found to be deceptive. This last fact, again, helped to carry back the time of the settlement of Hissarlik beyond the age when Greeks and Phœnicians had entered into close relations of civilization on the shores of the Ægean, that is, before the date of the Homeric poems, which are full of allusions to Phœnician influence.

It has often been observed how remarkably new discoveries coincide in point of time, just when they are needed to throw light upon one another. At the very moment when Dr. Schliemann was bringing to light the remains buried in the Hill of Hissarlik, Orientalists were engaged in deciphering the inscriptions found among the antiquities of Cyprus, and upon the rock tablets in the island, by the aid of the still recent results of cuneiform

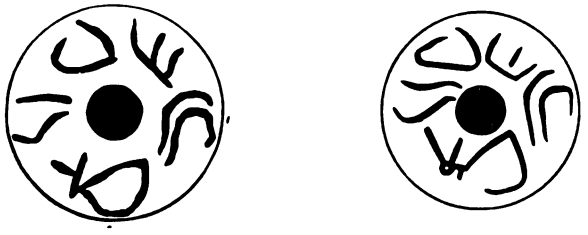
interpretation. The Cyprian characters were proved to belong to a syllabic alphabet, which is a varied form of the cuneiform writing of Babylonia and Assyria, and of an origin older than the Phœnician. The leaders in this work were Mr. George Smith and Dr. Samuel Birch, who assigned a phonetic value to 33 characters of the Cypriote syllabary; and it was followed up with especial zeal by the lamented young scholar, Dr. Johannes Brandis, who determined (as was thought) the remainder of the 60 signs. His unfinished posthumous *Essay on the Decipherment of the Cyprian Inscriptions* forms the landmark of the state of enquiry in the year in which Dr. Schliemann finished his excavations.*

To DR. MARTIN HAUG belongs the honour of first applying this key to the decipherment of the Hissarlik inscriptions. He traced such striking resemblances in some of the characters to those of the Cyprian alphabet, as to make out a good *primâ facie* case for their identity, and he seemed to have succeeded in deciphering three words. Two of these were formed by the six characters on a whorl from the Trojan stratum, which were afterwards seen to be identical with those on another from the same depth (7 meters), a repetition which seems to show the importance of the



unknown as the transmutation of *ta. i. o.* into θείῳ was forced; and, while Haug was doubtless right in his *method*, his results must be pronounced at best:—

"Fragments of broken words and thoughts,
Yet glimpses of the true."



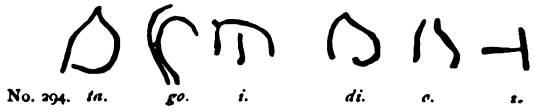
Nos. 292, 293. Two Trojan Whorls from the same depth (7 M.) with an identical inscription.*

It was with such a conviction that the enquiry was taken up by PROFESSOR THEODORE GOMPERZ, of Vienna,† whose words are well worth quoting as a lesson in the method of investigation: "One circumstance alone appeared to me consoling, namely, that I did not find myself obliged to add a new hypothesis to the numerous ones already existing, and that I felt it still possible to abide by Haug's discovery, were it only as a starting-point for further efforts. *For the beginning of continuity in enquiry is always the surest harbinger of approaching success.*" After making one correction in Haug's reading of the above inscription, he still found it quite unintelligible, till the thought struck him of reading it from right to left round

* The whorl on the left hand (the one discussed by Haug and Gomperz) is engraved from M. Burnouf's more accurate drawing in our lithographed Plate LI., No. 496; the other is given at page 161; but they are repeated here (from Schliemann's Atlas, Pl. 13, No. 432, Pl. 6, No. 208) in order to exhibit their identity. It is remarkable that these whorls, belonging to an age when writing was already known, are very coarse, both in material and work.

† Professor Gomperz gave an interesting and eloquent account of his labours and their results in two papers in the 'Vienna Evening Post' (*Wiener Abendpost*) for May 6th, and June 26th, 1874.

the whorl, instead of from left to right, and the confused syllables flashed, as by a sudden crystallization, into the pure Greek *ta. go. i. di. o. i.*, that is Ταγῷ δίῳ. "To the



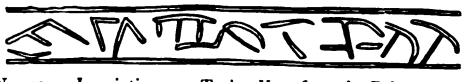
No. 294. *ta.* *go.* *i.* *di.* *o.* *i.*

No. 294. The above Inscription developed (7 M.).

divine General or Prince," an interpretation which Professor Max Müller pronounced to be "almost beyond reasonable doubt."* We deem this solution worthy of special record, both as a landmark in the history of the investigation, and still more as a striking example of the power of mere coincidence to produce combinations that seem to bear the stamp of truth.

The other inscriptions, of which Professor Gomperz proposed solutions, were the following: First, three letters on the terra-cotta seal, also from the Trojan stratum, mentioned in the 'Introduction' (No. 4, p. 24; Pl. 19, No. 555 in Schliemann's Atlas), which Professor Max Müller

No. 3474, Atlas). The third is round the shoulder of a vase from the Palace of Priam (No. 3, p. 23; Pl. 168, Nos. 3273 and 3278, Atlas), where, however, about one-

(*gap*)  (*gap*)

No. 297. Inscription on a Trojan Vase from the Palace (8 M.).

third of the inscription is wanting. The fourth is on a whorl from *the lower limit* of the Trojan stratum.

No. 298. Trojan Whorl, with an Inscription (10 M.).

No. 299. The Inscription developed (10 M.).

Comp. Pl. XXVII., No. 369. This also is of very coarse work.

The above record of the process of the investigation will still possess great historical interest, long after the results shall have emerged (as we trust) from the cloud which, for the moment, has come over our hopes; and we believe that its interest will be increased by stating the present position of the case in the words of Professor Gomperz himself *:—

"There is not, and there cannot be, the slightest doubt that Professor Haug at Munich was perfectly right, when he first identified the symbols found on several of the Hissarlik vases, &c., with Cypriote characters. I was right too in following up the track, and I think still that I have scarcely once been wrong in identifying those symbols with these characters. Furthermore, my general inferences drawn from the fact, that the Cypriote syllabic writing occurs out of Cyprus, and associated with what I rightly have called *pre-Homeric* objects of art, I still think unassailable. But—I cannot go further than this! My attempt at *deciphering* those inscriptions I now look upon as abortive! I hasten to add, that I do not think I deserve any reproach in the matter. I utilized to the best of my abilities the progress which till then had been made in the decipherment of the Cypriote inscriptions found in Cyprus.

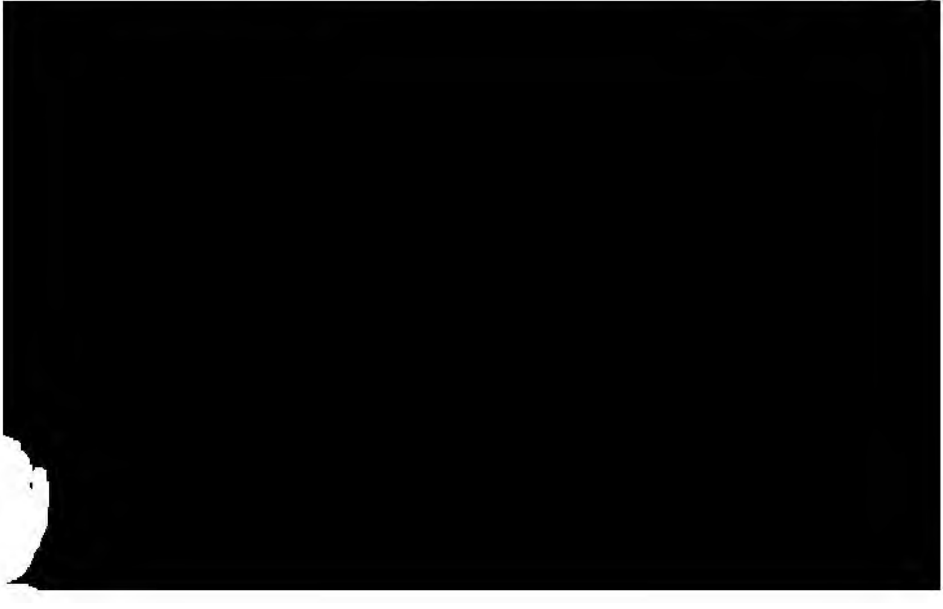
* From a letter to the Editor, dated Vienna, Dec. 9th, 1874, written in English, as here quoted.

I used as a key for my decipherment of the Hissarlik inscriptions the phonetic values which Mr. George Smith and Dr. Johannes Brandis had ascertained for those characters. But both these investigators had been only partially right! Wonderful indeed it is, that, applying as I did a key partially right and partially wrong, good and intelligible Greek words emerged. It was a most marvellous coincidence—but nothing else, a mere fortuitous coincidence.

"The labour of ascertaining the phonetic value of the Cypriote characters has since been taken up by several German scholars, Dr. Moritz Schmidt, Professor at Jena, and Messrs. Deecke and Siegismund at Strasburg, and to a candid critic there cannot remain a doubt that *they are right*, and that I (together with Smith and Brandis) *was wrong*."*

Such a frank, truth-loving spirit in the enquirer is as sure a guarantee of ultimate success as that "continuity in the enquiry," which Gomperz still holds to be established. In a word, the right track is known, but the sign-posts have to be rectified; the key is found, but its wards need some fresh adjustment; and we may soon hope for results far more fruitful than those of which, for a moment only, we have been disappointed.

Meanwhile it is well to put on record Professor Gomperz's reply to the objections that may be brought forward against the probable conclusion that, even before the



Homeric times, there existed Greeks acquainted with a written language.

"For this supposition is not only opposed by ancient, though possibly unhistoric traditions, such as the denial of the settlement of Asia Minor by European Greeks, but by really historical facts—for instance, the total absence of any mention of the art of writing in these very Homeric poems.

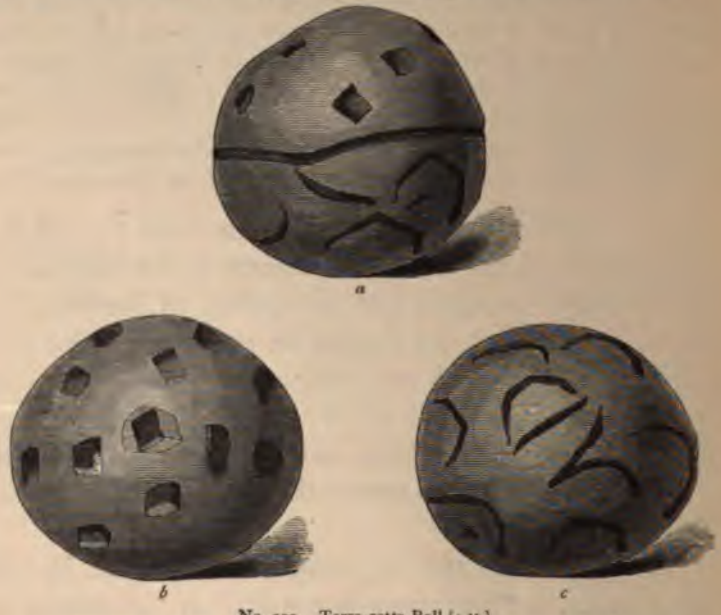
"However this objection—let it count for as much or as little as it may—affects not only our decipherings, but also a firmly established and quite undeniable fact, the existence of a Cyprian syllabic writing. For that a nation which knew of a written language, simple and handy as the Phœnician with its facility of supplying the vowels, should prefer one like the Cyprian, full of the most troublesome characters and yet subject to the worst ambiguity, is surely as unlikely as that a nation in possession of the needle-gun should return to the use of the battle-axe. However, in the ninth and at latest in the eighth century (and very probably much earlier) the Greeks *must* already have been acquainted with the so-called Phœnician writing, which at that time was employed with equal readiness both in Moab and in Nineveh. Hence the Cyprian writing must have found its way among the Greeks before this epoch (and we may almost safely say a considerable time before this epoch, for otherwise how could it have taken firm root in Cyprus only?) My opinion is that we shall soon find the definite outlines of an epoch of Greek culture, or semi-culture, which I should be inclined to name the *pre-Cadmean*, the decline of which may probably be dated from the mighty impulse which the conquest of Canaan by the Israelites (about 1300) gave to the migration and the colonization of the Phœnicians." *

We are enabled, by a communication from Dr. Schliemann, to present a list of all the objects in his collection, which Professor Gomperz has recognised as bearing Inscriptions, all of which are figured in our work. We also append the *depth* at which each object was found, inasmuch as this determines to which of the nations, that dwelt successively on the site of Ilium, each inscription is to be referred; and this is by no means the least interesting point in the investigation.

It will be understood, of course, that this is, in the strongest sense, a "first provisional list" of the results of

* See B. Schröder, *Die phonicische Sprache;* Halle, 1869, p. 2, fol.

an enquiry only just begun. We believe that we could make no inconsiderable additions to it; but we await the verdict of the more competent enquirers who are now engaged in the research. Their labours may show that the *lowest stratum* of remains is not destitute of traces of a written language, as would appear at first sight from the List. Meanwhile the great preponderance of known inscriptions from the "Trojan stratum" (7–10 M.) of Dr. Schliemann is very striking: 11 out of the 18 belong to it. But the ethnic affinity between the Trojans and their successors, already attested by many proofs, is now confirmed by five inscriptions in the Cyprian character from the depths of 4, 5, and 6 meters (Nos. 5, 6, 7, 12 and 16 in the List). The two funnels (Nos. 17, 18) are furnished by the uppermost stratum: each bears only a single letter, which appears also to be Cyprian; but there would seem to be still some doubt whether it may not be Phœnician.



No. 300. Terra-cotta Ball (4 M.).
a. Side View. *b*. Upper Hemisphere. *c*. Lower Hemisphere, with the Inscription.

LIST OF INSCRIPTIONS

RECOGNIZED TO THE PRESENT TIME ON OBJECTS IN DR. SCHLIEMANN'S COLLECTION.*

I.—Inscriptions on Whorls.

In Translation.	In Atlas.	Depth.	References.
Pl. XXIV. No. 353.	Pl. 5, No. 166.	9 M.	
Pl. XXVII. No. 369.	Pl. 11, No. 356.	10 M.	Pp. 137, 369.
Pl. LI. No. 496.	Pl. 13, No. 432.	7 M.	Identical inscription: pp. 83, 137, 161, 365-368.
No. 115, p. 161.	Pl. 6. No. 208.	7 M.	
Pl. XXXIX. No. 435.	Pl. 122, No. 2442.	5 M.	
Pl. XLVI. No. 472.	Pl. 162, No. 3134.	6 M.	
Pl. XXV. No. 360.	Pl. 173, No. 3364.	4 M.	
Pl. LI. No. 494.	Pl. 187, No. 3415.	7 M.	
No. 227, p. 312.	Pl. 164, No. 3193.	8 M.	Page 312.
No. 291, p. 363.	Pl. 166, No. 3233.	8 M.	

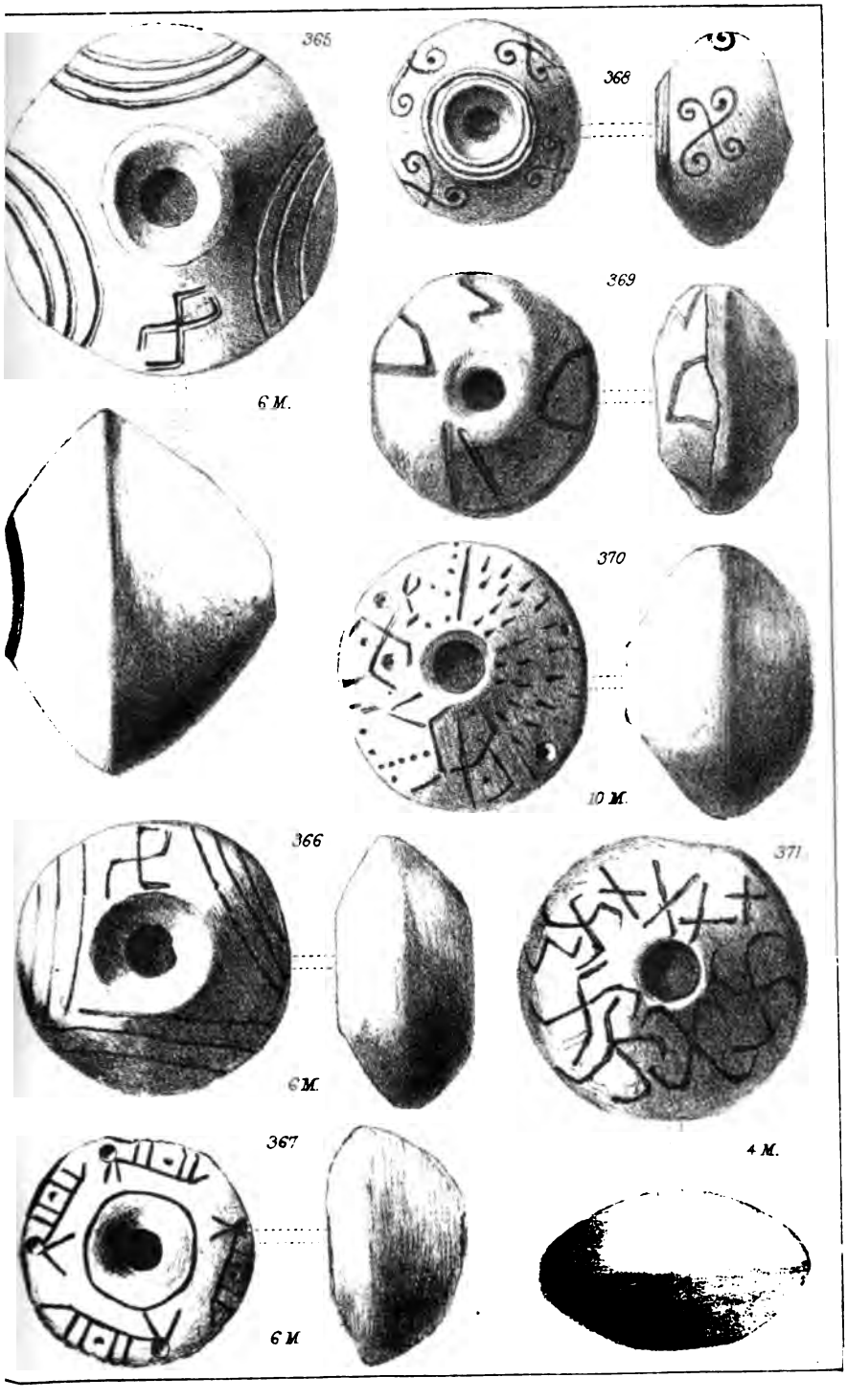
II.—Inscriptions on Terra-cotta Balls.

Pl. LII. No. 497.	Pl. 166, No. 3229.	8 M.	
No. 300, p. 372.	Pl. 135, No. 2699.	4 M.	

III.—On other Objects.

Seal, No. 4, p. 24.	Pl. 19, No. 555.	7 M.	Pp. 24, 368.
Whetstone, No. 5, p. 24.	Pl. 190, No. 3474.	7 M.	Pp. 24, 368.
Vase, No. 3, p. 23.	Pl. 168, No. 3273, 3278.	8 M.	Pp. 307, 369.
Vase, Nos. 31, 32, p. 50.	Pl. 161, No. 3092.	5½ M.	Pp. 50, 309.
Pair of Funnels, Nos. 145, 146, p. 191.	Pl. 171, No. 3292. Pl. 171, No. 3295.	3. M.	Pp. 191, 366.

* Besides the numbers of our own engravings, those of Schliemann's Atlas are given, as they have been hitherto used for reference in the discussion by Haug, Gomperz, Max Müller, and other scholars.



SPECIMENS OF WHORLS, &c DUG UP AT TROY.

Braun, Julius, 46, 111.
Bronze, some of the objects of the Treasure found to be of, 361.
Brush-handle, Trojan, of terra-cotta, with holes for the bristles, 297.
Buddha, sculptured foot-print of, with the 卐 and mystic rose, 103.
Buildings, of the first settlers, of stones joined with earth, 14, 134, 155–6.
——, of the second (or Trojans), of unburnt bricks with some stone foundations, 24, 96, 156, 302.
——, of the third settlers, of small stones joined with earth, 28, 166.
——, of the fourth settlers, the *wooden Ilium*, 29, 17.
——, of Greek Ilium, of hewn stone, 173.
——, great ruins of, 128, 132, 133, 134.
——, Trojan, quarry used for, 140, 141.
——, Trojan, burnt, 301, 302.
—— ——, proofs of their successive ages, 302.
——, on north platform, 316.
Bunarbashi, opinion of Lechevalier for, as the site of Troy, erroneous, 43, 123, 124, 217; no remains of a great city there, 43; the true site of Gergis, 44; reply to the arguments of M. Nikolaïdes for the site of, 176, 182; the springs at, 176;
Cellar, a small Greek, 279.
Cellars, none found, great earthen jars used instead of, 140. (*See* JARS.)
Chanaï Tépé, mound of, 72.
Chest, inlaid piece of terra-cotta, supposed to be the lid of a, 129, 130; the chest which held the Treasure, 332; its key, 333; treasure-chests of Priam and Achilles, 333.
Chimæra, the, of Homer, 320.
Chinese Libation Cup, 326–7.
Chiplak, proposed site of Troy at, refuted by absence of remains, 45.
Chronology of Troy, 12, 27.
City walls, covered with ashes of a conflagration, 16. (*See* WALLS.)
Civilization, progressive decline in, among the successive inhabitants of the hill, 29; higher, below what seemed the "Stone Age," 75; marks of, increasing with depth reached, 82, 128, 134.
Coins, Greek and Roman found at Hissarlik; none later than Constans II., and Constantine II., 32, 62, 64-65, 206, 207, 253, 354.
Copper, silver, and gold, contemporaneous use of, for tools, weapons, vases and ornaments, 22; Trojan implements and weapons of, 82; nails and rings with gold and electrum

Cuttings, on the north side, 61, 62; great, construction of, 88; new, 186; new, from S. E. to N. W., 230.
Cylinder of felspar, like the Assyrian signet cylinders, 312.
Cyprian Inscriptions (Appendix), 365, 366; the key to the Trojan, 366; progress of their decipherment, 369, 370.

D.

Daggers, copper, found in the Treasure, 331, 332. (*See* WEAPONS.)
Damour, *M.*, his analysis of Trojan metal, 361.
Depths at which the objects were found carefully noted, 27, 219.
Drawings of the objects found, 357.
Débris, Diagram of the strata of, 10.
——, thickness of, above native rock, 123; depth of, unexampled in the world, 217, 218; supposed, of the temple of Athena, 221, 222.
Demetrius, of Scepsis, his site for Troy at the "Village of the Ilians" adopted by Strabo, 41; refuted, 42.
"*Δέπας ἀμφικύπελλον*," the, 15, 50, 128, 313–316; the great golden one of the Treasure, 326–7.
Destruction of walls of former settlers, 156, 157; of third town, 170; of Trojan buildings, in excavating below them, 348.
Diadems, the two golden, found in the Treasure, 335, 336.
Diagram of the successive *strata* of ruins at Hissarlik, 10.
Dishes, terra-cotta, with side-rings, 155, 172, 215; (*φιάλαι*, *paterœ*), of silver, in the Treasure, 329.
Drawings, care in making, 219; an artist taken to make good, 225.
Dumbrek Su, the ancient Simoïs, 358.

E.

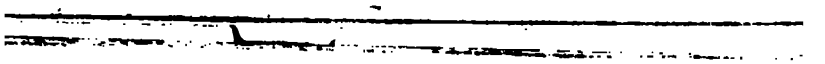
Ear-rings, of silver, gold, and electrum, 164, 165; of gold, found in the Treasure, their unique form, 118, 119, 336, 337.
Ebony, piece of a musical instrument, 165.
Electrum, a mixture of gold and silver, 165, 254, 327; objects of, found, *ibid.*, 334.
Emblems, Aryan, on the whorls, balls, &c.; their significance, 101, 102; occurrence of, among other Aryan nations, 102; mentioned in old Indian literature, 102, 103; solar, and rotating wheels, 136, 137.
Epithets, Homeric, of Ilium, suitable to Hissarlik, 124, 125.
Etymology of Ἴλιος, 125, 126.
Excavations, the "grandmother of the," 316; final close of the, 356; intended resumption of, Preface, p. xxiii. (*See* WORKS.)
Explorers, advice to future, 346.

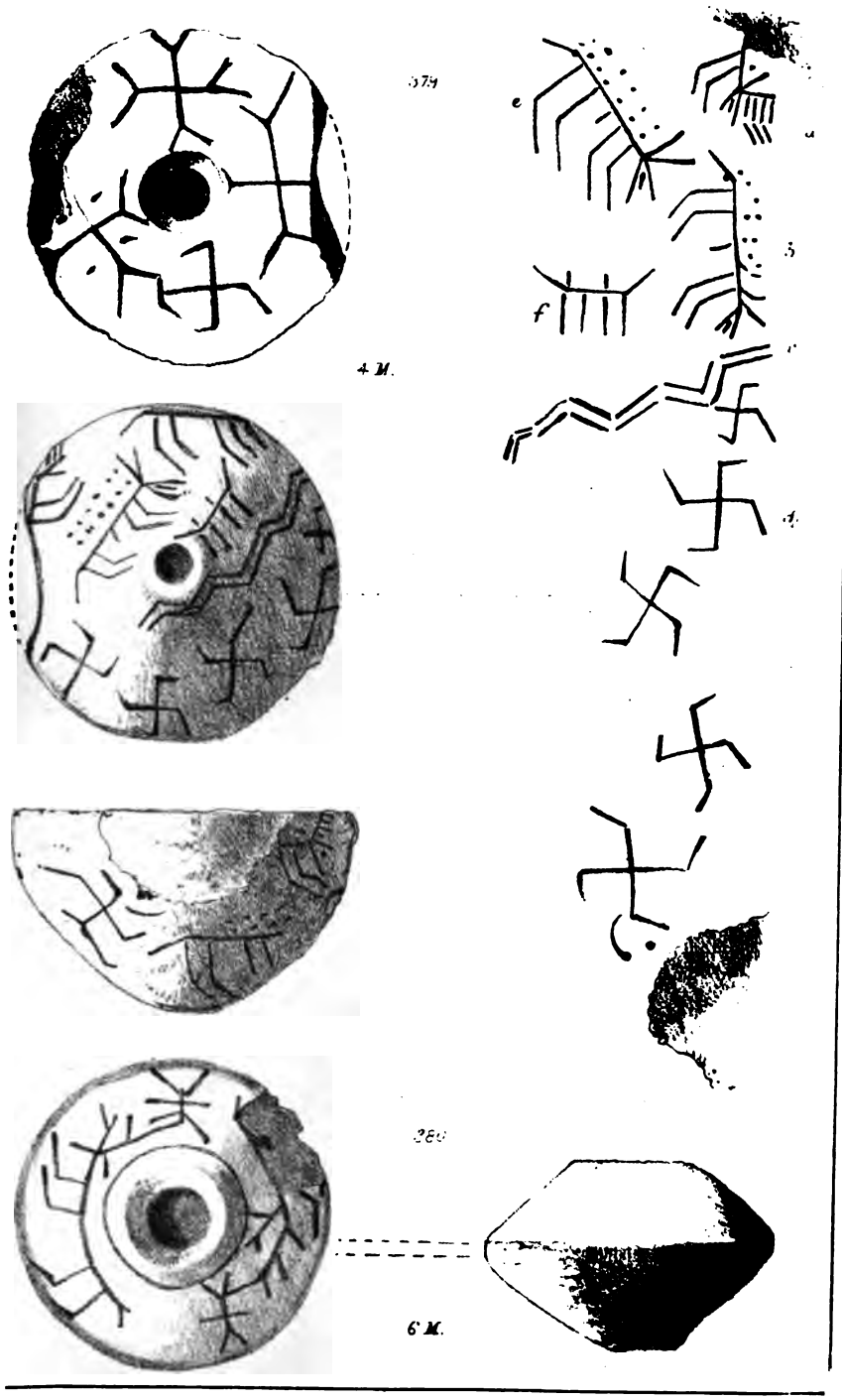
F.

Falcon, the, an Aryan emblem on the terra-cottas, 120, 135.
Fever, dangers from, 62, 258.
Fire, marks of great in the ruins, 109, 133, 228, 277, 347; narrow escape from, 275.
Firman, for making the excavations, 59.
Fortifications, of the hill, 289, 290; further discoveries of, 322. (*See* WALLS.)
Funereal Urns. (*See* URNS.)
Funnels, small, of terra-cotta, with inscriptions, 191.

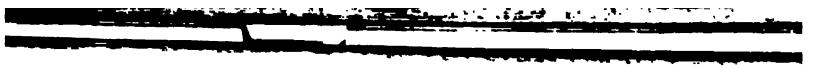
G.

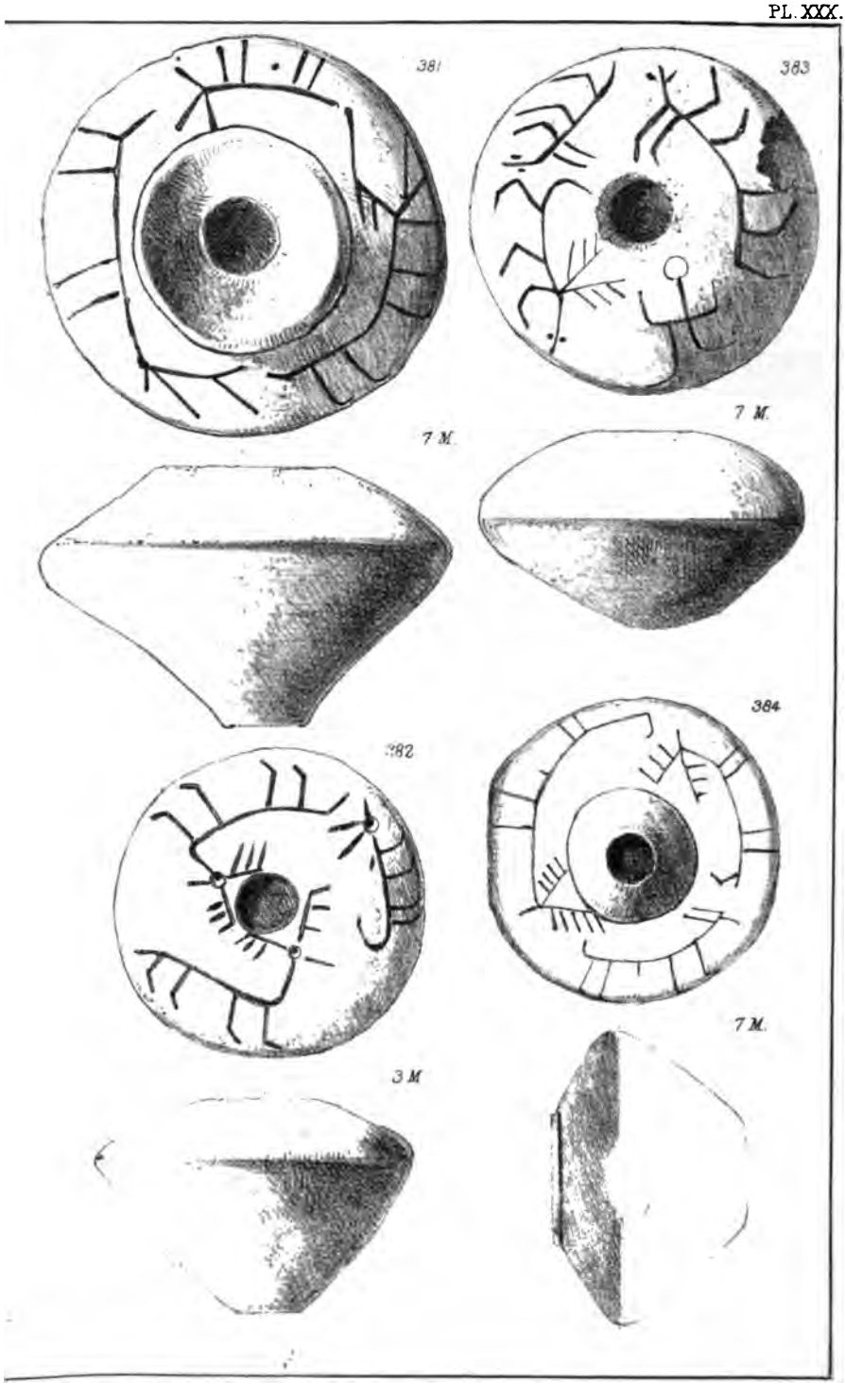
Gate, discovery of a double, with copper bolts, 302, 303; the Scæan, of Homer, 303–305.
Genealogy of the kings of Troy, 123.
Georgios Photidas, 116.
Gergis; identified with the ruins at Bunarbashi, 44, 245.
Goblets; curious terra-cotta, 317; of gold, silver, and electrum, found in the Treasure, 325, 327, 329.
——, the double-handled. (*See* *Δέπας ἀμφικύπελλον*.)
Gold, modes of working, 327.
——, ornaments of. (*See* ORNAMENTS.)





SPECIMENS OF WHORLS, &c. DUG UP AT TROY.





SPECIMENS OF WHORLS, &c. DUG UP AT TROY.

Temple, Trojan, of Athena, on the Pergamus, mentioned by Homer, 147, 222, 223; doubt as to its real existence, 346.

——, Greek, of Athena, excavation of, 186; supposed débris of, 221, 222; drain of, 223; Doric style of, 223; excavations on site of, 226; ruins of, 240, 249, 278, 279; reservoir of, 249; ancient houses under, 289, 290.

——, a small, at Ilium, in the time of Alexander, 146, 147, 251; traces of a small, and objects found on its site, 234, 236.

Terra-cottas found at Hissarlik, 15, foll.; their materials and colours, 49; with two holes and a stamp in the Greek stratum, 65, 174, 269; at lower depths, 295; models of canoes, 79; small round perforated pieces, perhaps for spindles, 79; fine vessels of remarkable form, 85, 87; a remarkable one, 130; with Aryan symbols, 135, 136 (*see* WHORLS); remarkable vessels of, 149, 152; seals, 162; coarser in third stratum, 167; balls, with astronomical and religious symbols, 167, 168, 188; with inscriptions, 372, 373; plain and painted, of Greek Ilium, 174; Greek statuettes in, 186; balls, with suns stars, &c., 188, 364; a bell, 192; various and beautiful, 192, 194; material, colour, and mode of engraving, 193–4; found at small depths, 207; hippopotamus, bright red, 228; vases of curious shape, 229; serpents' heads, 236, 238; a decorated tube of, 293; found on the Tower, 281, foll., 286, 340; found in the Palace, 307–314; found in the later house above it, 314, 315; Greek, 279, 291, 317, 343; curious vessels found on the north side, 351; with hieroglyphics, 291, 351; heads of oxen and horses, 353. (*See* VASES.)

Thera (*Santorin*) and *Therasia*, the house-walls and pottery at Hissarlik like those in these islands, 79, 80, 115, 204.

Thymbria, 70, 71.

Thymbrius, the, 177; aqueduct from, 239.

Tomb of Batiea or Myrina, 179, 180; identified with the Pacha Tépé, 198.

Tombs, the three so called, of heroes near Bunarbashi, are Greek, 44.

——, of Patroclus and Antilochus, 178.

Tower, Great, of Ilium, 16, 21, 26; discovery of, 201; splendid view from, 202; further excavation of, 212, 213; objects found on, 213; and on each side of, 215, 216; excavation of, 249, 250, 251; original height of, 254; great house on, 276, 277; plan of, 305; top discovered, 318; trench for archers, *ibid.*; steps, *ibid.*

——, of the Greek age, 323.

Treasure, of Priam, 17; the great discovery of, 323; expedient for its preservation, 323, 324; articles described, 324; copper shield, 324; copper caldron, 325; curious copper plate and silver vase, 325; copper vase, *ibid.*; bottle and vases of gold, 325, 326; the golden δέπας ἀμφικύπελλον, 326, 327; electrum cup, 327; six blades or plates (*talents*), 328; silver vases, 329; silver goblet and dish, 329; copper lance-heads, 329, 330; copper battle-axes, 330, 331; copper daggers, sword, &c., 331; the articles fused together by the conflagration, 332; signs of having been packed in a wooden chest, 332, 333; key to chest found, 333; probably left behind in an effort to escape, 333, 334; great wall built over it, 334; gold jewels in a silver vase, 334, 335; two gold diadems, 335, 336; gold fillet and ear-rings, 336; bracelets and finger-rings, 337; ear-rings, 337; 8750 small jewels of gold, 338–340.

——, copper articles analysed, 340, 361, 362.

Tree of Life (the *Sôma-tree*), an Aryan emblem on the terra-cottas, 119, 120, 135, 160.

Triglyphs, block of (*See* METOPÉ.)

Troad, good wine of the, 232.

Trojans of Homer, 16, &c.; their affinity to the Greek race (Appendix), 364.

Troy, chronology of, 12, 123; first city destroyed by Hercules, 26; small extent of the Homeric, 18, 343, 344; discussion of site, 41; opinions of modern authorities, 43–46: plain of, and heroic *tumuli*, 70; the plain *not* alluvial, 71; supposed ruins reached, 90; extent of the Pergamus, 117; naming of site as, 211; Homer's, identified with the site of Greek Ilium, 216; return to, to take plans and photographs, 220; plain of, spring weather in, 248; tests of extent of, 304; its walls traced, 344; its reality established, 344; small, but as large as Athens and Mycenæ, 117, 344, 345; its wealth and power, 345; great height of its houses, 345; probable population, 17, 71, 176, 345; known to Homer only by tradition, 345, 346; its strata of burnt wood-ashes, 347; plan of, in Priam's time, 347; part of real, destroyed in excavations, 348; the buildings brought to light by Schliemann, 349, 350; stones of, not used in building other cities, 348.

Tub of terra-cotta, 341.

Turkish Government, the author's relations with the, 52, 53, and Preface, p. xxiii.

cuneiform decorations, 193; perforated, 352. (*See* TERRA-COTTAS.)

Vases, silver, found in the Treasure, 325, 328, 329; in the Palace of Priam, 334, 342.

Virgil quoted, 74, 177, 358.

W.

Wall, ancient, on northern slope, 200, 201, 217; retaining, on the south side of the hill, 221; of Troy, 227, 228, 316, 340; of Lysimachus, 230, 231.

Walls, damage done to remaining, 220; enormous, close below the surface, 230; further discoveries of, 250, 251; curious stone, three sets one above the other, near the Scæan Gate, of different periods, 288, 290.

Weapons, of stone, 21, 22, 79, 83, 168; of copper, and moulds for casting, 139, 162; and ornaments of stone, copper, and silver, 213.

Weights, supposed Trojan, 154; table of, 359, 360.

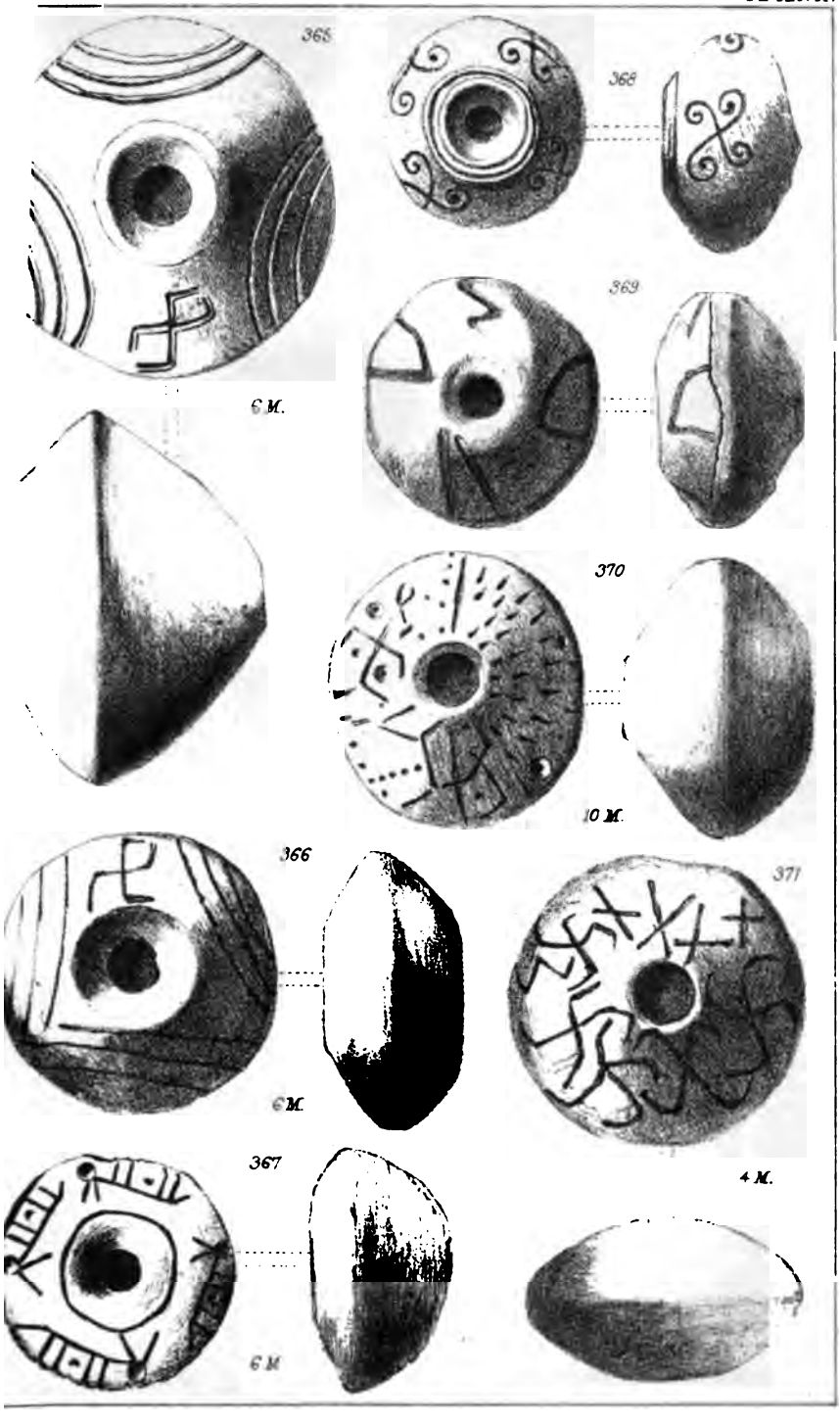
Well, Roman, 64, 93, 123.

——, in third stratum, 169.

——, Greek, 175, 162.

Wheels in motion, whorls representing, 136, 137, 162.

Whetstones, 79, 169.



SPECIMENS OF WHORLS, &c DUG UP AT TROY.

COMPARATIVE TABLE OF THE ILLUSTRATIONS IN DR. SCHLIEMANN'S ATLAS AND THE TRANSLATION.

Atlas.		Translation.	Atlas.		Translation.
Pl.	No.	No. Pl.	Pl.	No.	No. Pl.
1,	1	317, XXII.	4,	133	330, XXII.
	4	318, XXII.	5,	134	430, XXXVIII.
	10	475, XLVI.		136	398, XXXIII.
	12	319, XXII.		140	460, XLIII.
	20	320, XXII.		142	489, XLIX.
2,	34	381, XXX.		143?	354, XXIV.
	35	380, XXIX.		145	476, XLVI.
	36	382, XXX.		156	408, XXXIV.
	37	321, XXII.		160	419, XXXVI.
	42	410, XXXV.		161	332, XXII.
	51	322, XXII.		166	334, XXIV.
	53	329, XXII.		168	423, XXXVII.
	57	42, p. 80.	6,	174	44, p. 80.
	58	324, XXII.		175	478, XLVII.

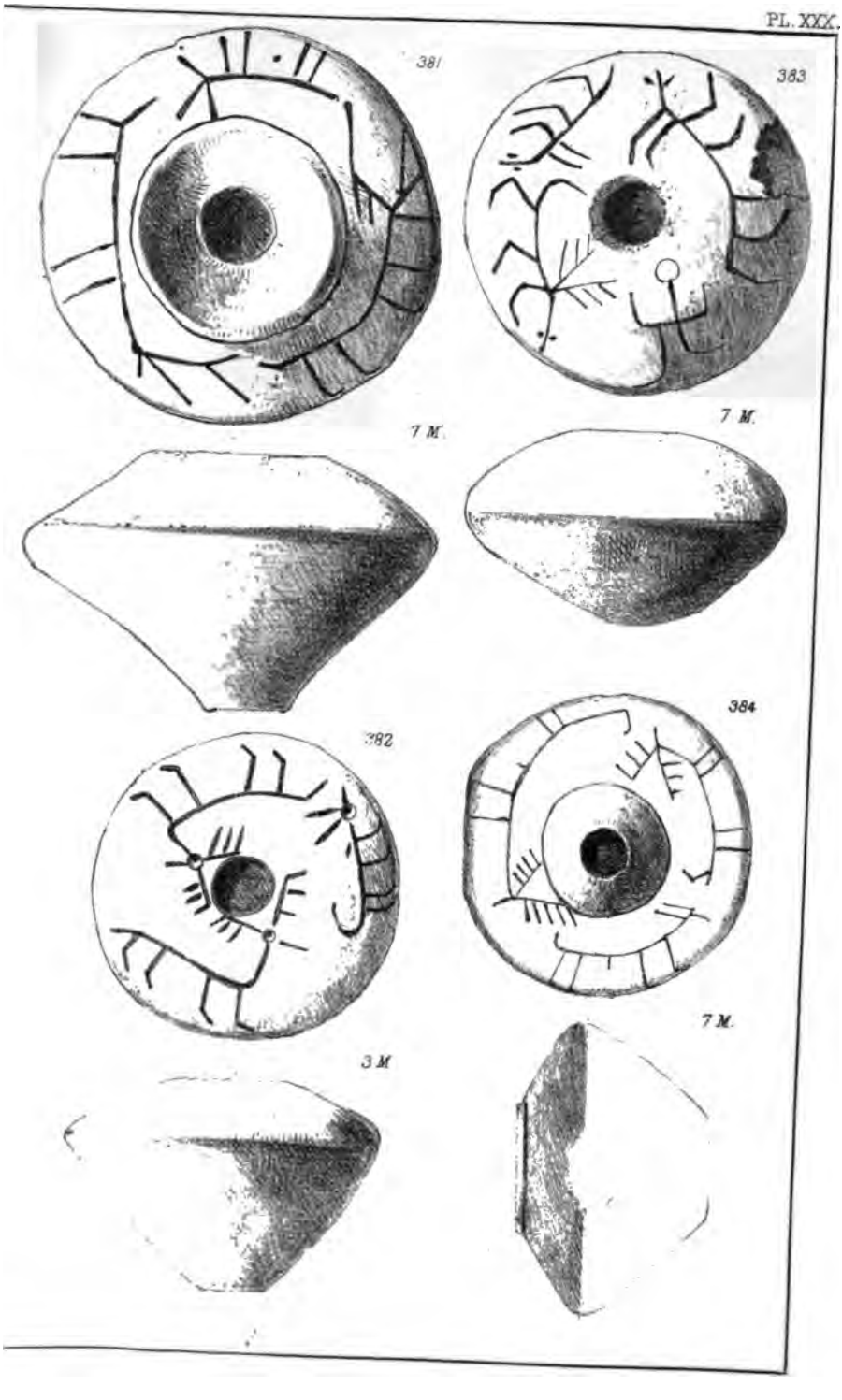
Atlas.		Translation.	Atlas.		Translation.
Pl.	No.	No. Pl.	Pl.	No.	No. Pl.
8,	260	402, XXIII.	13,	422	342, XXIII.
	261	331, XXII.		424	346, XXIII.
	263	43, p. 80.		426	444, XL.
	264?	396, XXXII.		427	343, XXIII.
	266	80, p. 137.		428	347, XXIII.
	270	361, XXVI.		430?	466, XLV.
9,	272	416, XXXVI.		431	465, XLIV.
	273	414, XXXV.		432	496, LI. & p. 367.
	274	365, XXVII.		433	345, XXIII.
	276	424, XXXVII.		434	348, XXIII.
	279	338, XXIII.		436	301, XXI.
	282	356, XXV.		438	302, XXI.
	285	359, XXV.		442	303, XXI.
	288	377, XXVIII.		443	304, XXI.
	289?	372,* XXVIII.		445	305, XXI.
	289?	411,* XXXV.		446	306, XXI.
	294	370, XXVII.		448	307, XXI.
	295	362, XXVI.		449	308, XXI.
	296	380, XXIX.	14,	450	493, LI.
	297	447, XLI.		452	491, L.
	298	381, XXX.	15,	460	498, LII.
	299	379, XXIX.		471	486, XLIX.
9,	307	339, XXIII.	16,	472	484, XLVIII.
	326	340, XXIII.		473	149, p. 199.
	327	341, XXIII.		474	62, p. 95.
	337	458, XLIII.		485	309, XXI.
1,	344	387, XXXI.		486	310, XXI.
	346	392, XXXII.		487	311, XXI.
	356	369, XXVII.		488	312, XXI.
	356	298-9, p. 369.		489	313, XXI.
2,	384	428, XXXVIII.		491	314, XXI.
	410	391, XXXII.		494	315, XXI.
3,	418	344, XXIII.		497	316, XXI.

* Identical design, but different material.

Atlas.	Translation.	Atlas.	Translation.
Pl. No.	No. Page.	Pl. No.	No. Page.
17, 503–4	2, 21	24, 646	50, 83
512	142, 173	656	67, 101
513	37, 65	657	68, 101
518	38, 65	660	122, 165
519	39, 65	661	123, 165
18, 529	40, 65	662	124, 165
537	162, 232	25, 665	14, 36
540	290, 353	666	92, 150
19, 541	143, 188	669	93, 150
546	116, 162	670	94, 150
553	147, 192	671	95, 150
554	148, 192	672	96, 150
555	4, 24, 368	674	97, 150
556	78, 130	675	98, 150
20, 562	109, 155	678	99, 150
564	24, 36	681	100, 150
565	18, 36	682	101, 150
566	15, 36	683	58, 94
567	12, 164	685	61, 94
568	16, 36	687	59, 94
570	20, 36	689	60, 94

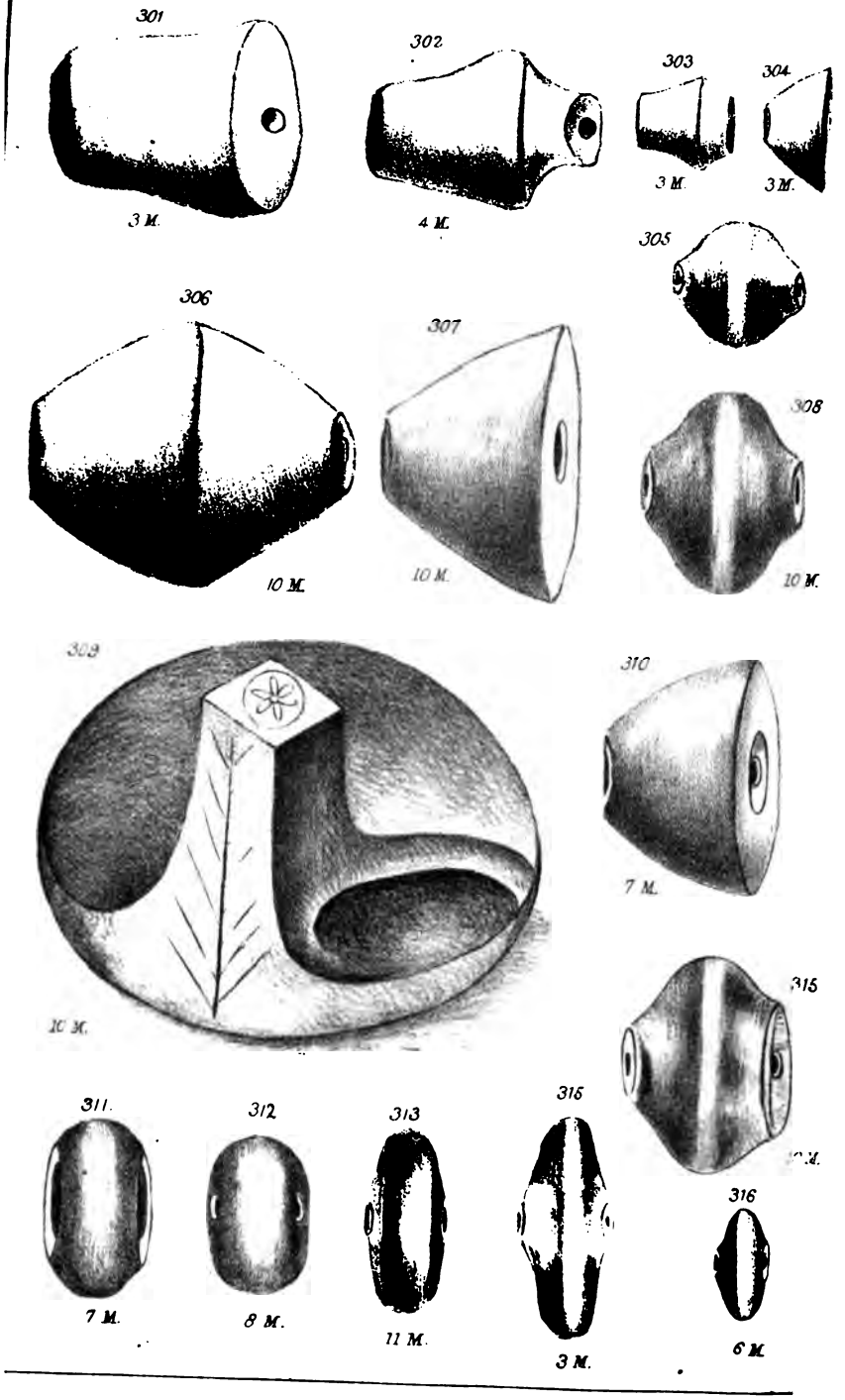
Atlas.		Translation.		Atlas.		Translation.	
Pl.	No.	No.	Page.	Pl.	No.	No.	Page.
32,	774	131,	170	69,	1541	45*g*,	82
	775	10,	34		1553	46,	82
	776	11,	34	72,	1582	6,	25
	779	64,	97	75,	1623	74,	115
	782	136,	171		1628	155,	214
	786	137,	171		1630	113,	159
	787	134,	171		1632	51,	86
	788	135,	171	84,	1762	53,	87
34,	867	138,	172		1768	111,	158
	868	139,	172		1770	112,	158
35,	872*a*	129,	169	90,	1864	117,	163
	874	132,	171		1880	118,	163
	882	133,	171		1886	119,	163
41,	994	125,	166	91,	1893	151,	208
	996	130,	170	97,	2022	153,	209
	1003	70,	106		2025	104,	151
48,	1152	127,	167	98,	2044	8,	25
52,	1158	128,	167	101,	2272*a–d*	108,	155
	1257	126,	166		2272*g*	120,	163
54,	1275	13,	35		2272*l*	154,	211
55,	1287	41,	74	102,	2290–1	73,	114
61,	1374	233,	320		2292	102,	151
64,	1433–5	157,	215		2293	103,	151
65,	1440	150,	208	103,	2294	107,	153
	1441	55,	87		2296	106,	152
	1446	12,	34	104,	2298	105,	152
67,	1497–8	232,	320		2299	152,	209
	1505	184,	268	PLATE 110		PLATE VIII.	
68,	1520	158,	219	114,	2317	156,	214
69,	1535	45*a*,	82		2325	72,	110
	1536	45*b*,	82	PLATE 118		MAP.	
	1537	45*c*,	82	119,	2330	159,	228
	1538	45*d*,	82		2331	65,	97
	1539	45*e*,	82	120,	2352	160,	229
	1540	45*f*,	82		2362	161,	229

Atlas.		Translation.		Atlas.		Translation.	
Pl.	No.	No.	Page.	Pl.	No.	No.	Page.
120,	2363	170,	237	138,	2746	63,	95
121,	2389	454,	XLII.	139,	2755	178,	262
	2390–1?	477,	XLVII.	140,	2768	52,	86
	2392	451,	XLII.		2769	196,	283
	2393	367,	XXVII.	141,	2778	36,	63
122,	2423	384	XXX.		2780	197,	284
	2432	171.	238		2782	194,	282
	2435	9,	27		2784	199,	285
	2438	165,	235	142,	2791	191,	280
	2442	435,	XXXIX.		2803	198,	285
	2444	167,	236		2806	200,	286
123,	2467	166,	236		2815	422,	XXVII.
125,	2515	489,	XLIX.	143,	2827	201,	p. 286
126,	2554	455,	XLIII.		2840	395,	XXXII.
	2555	164,	235	145,	2838 *bis*	215,	296
	2560	163,	234		2839 *bis*	204,	292
PLATE 127		PLATE IV.		146,	2850	190,	280
130,	2561	176,	261	147,	2862	209,	294
	2577	177,	261		2865	210,	295
132,	2613	172,	255		2889	29,	36
	2615	473,	XLVII.		2892	371,	XXVII.



SPECIMENS OF WHORLS, &c. DUG UP AT TROY.

Atlas.		Translation.	Atlas.		Translation.
Pl.	No.	No. Page.	Pl.	No.	No. Page.
192,	3490*a*	243, XVII.	199,	3588	235, XIV
	3490*b*	244, XVII.	200,	3489-94	242, XVII
	3490*c*	245, XVII.		3595	250, XVIII
	3490*d*	246, XVII.		3596	251, XVIII
193,	3492	257, 330	201,	3600	265, 332
	3493	258, 330		3600*a*	266, 332
	3495*d*	259, 330		3600*b*	268, 332
	3495*e*	260, 330		3600*c*	249, XVIII
	3495	218, 302	202,	3601	281, 337
	3495*a*	218, 302		3602	238, XV.
	3495*g*	267, 332		3603	248, XVIII.
194,	3496	273, 334		3603*a*	237, XV.
	3497*a*	274, 334		3603*b*	240, XVI.
	3497*b*	275, 334	203*a*		239, XVI.
	3499	263, 332	204		PLATE II.
	3502	252, 330	205		276, XIX.
	3503	253, 330	206		277, XIX.
	3504*a*	261, 331	208		282, 339
	3504*f*	254, 330	209		279-80, XX.
	3504*g*	255, 330	211		PLATE XII.
	3504*i*	272, 334	212		PLATE XIII.



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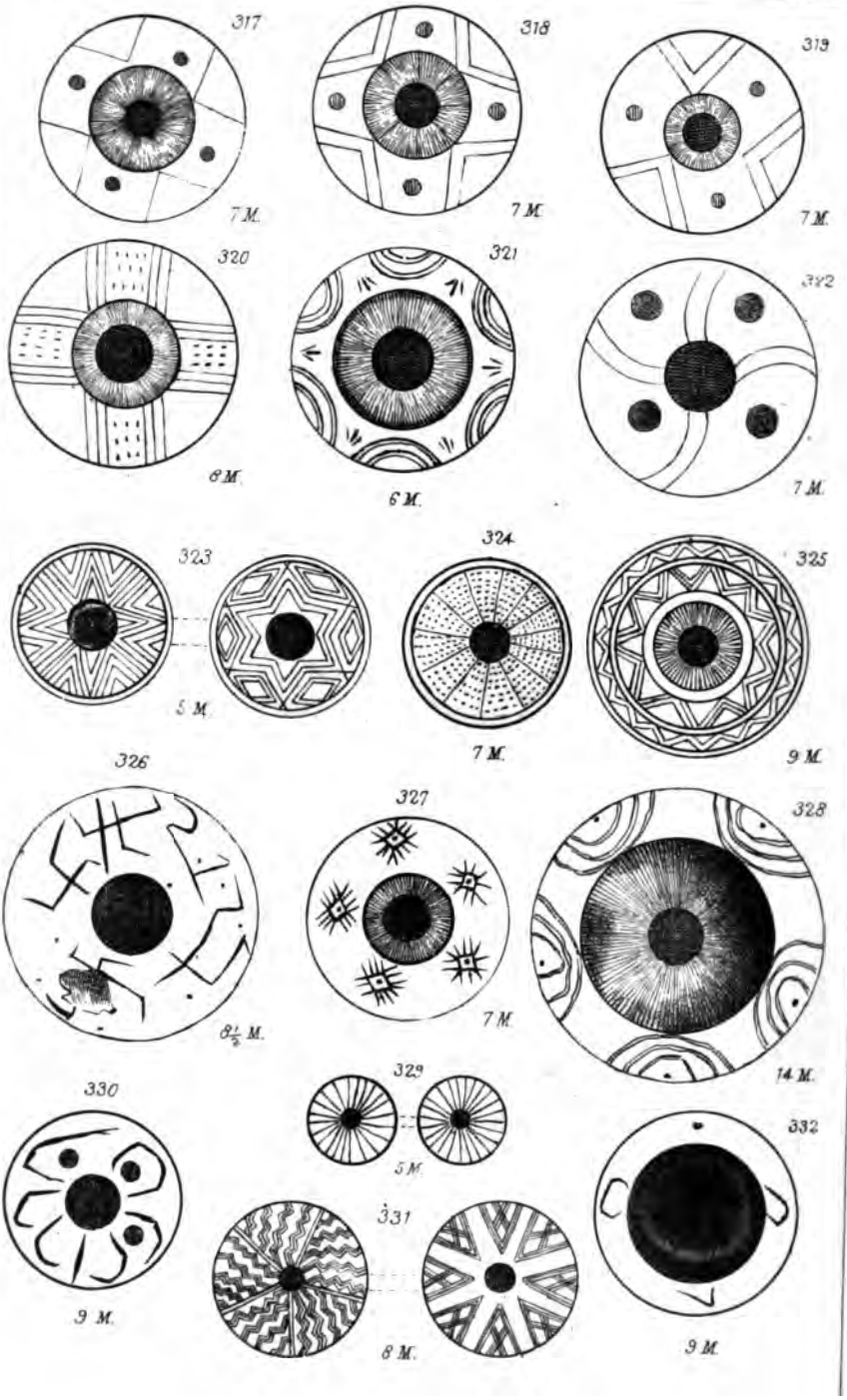

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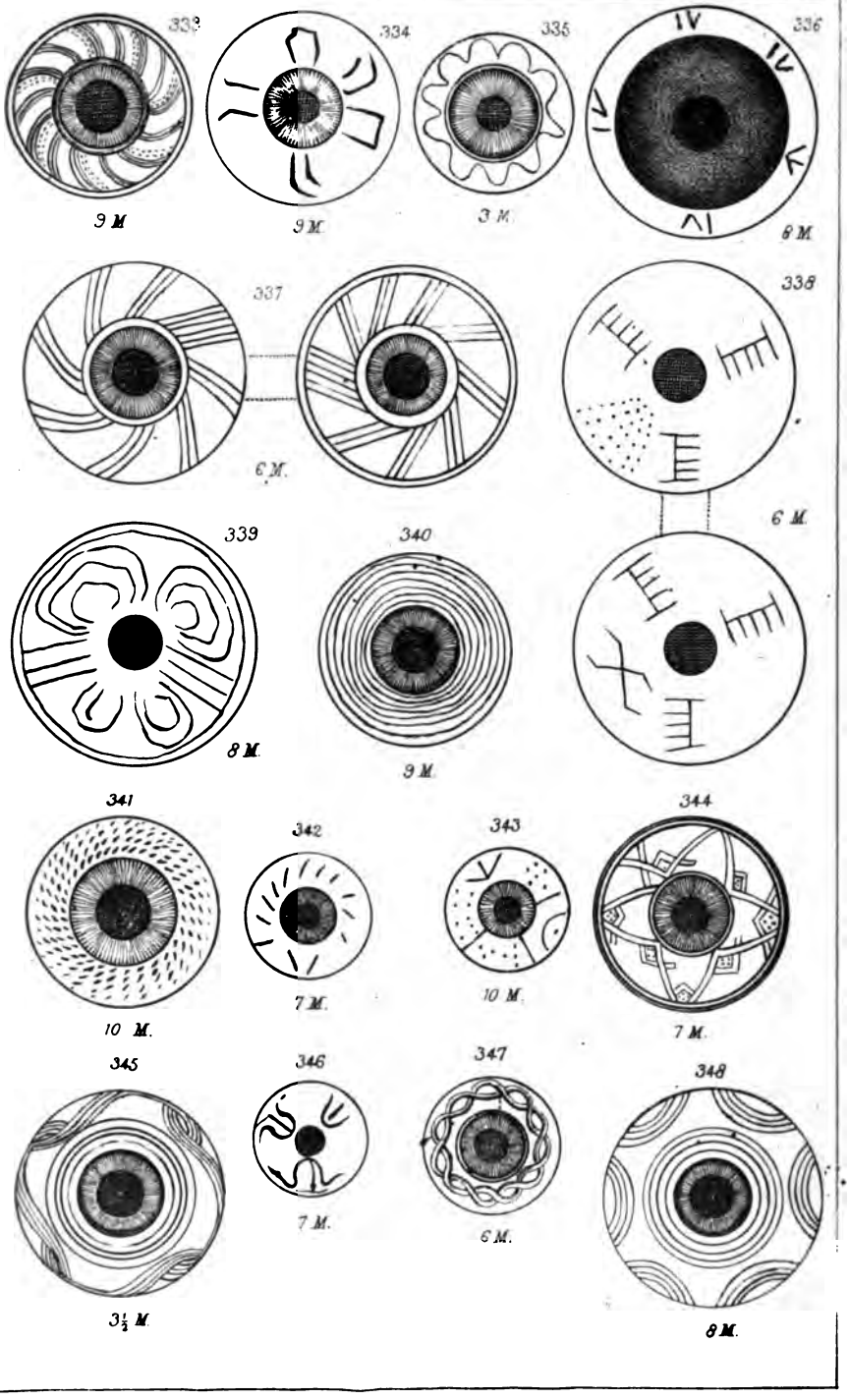

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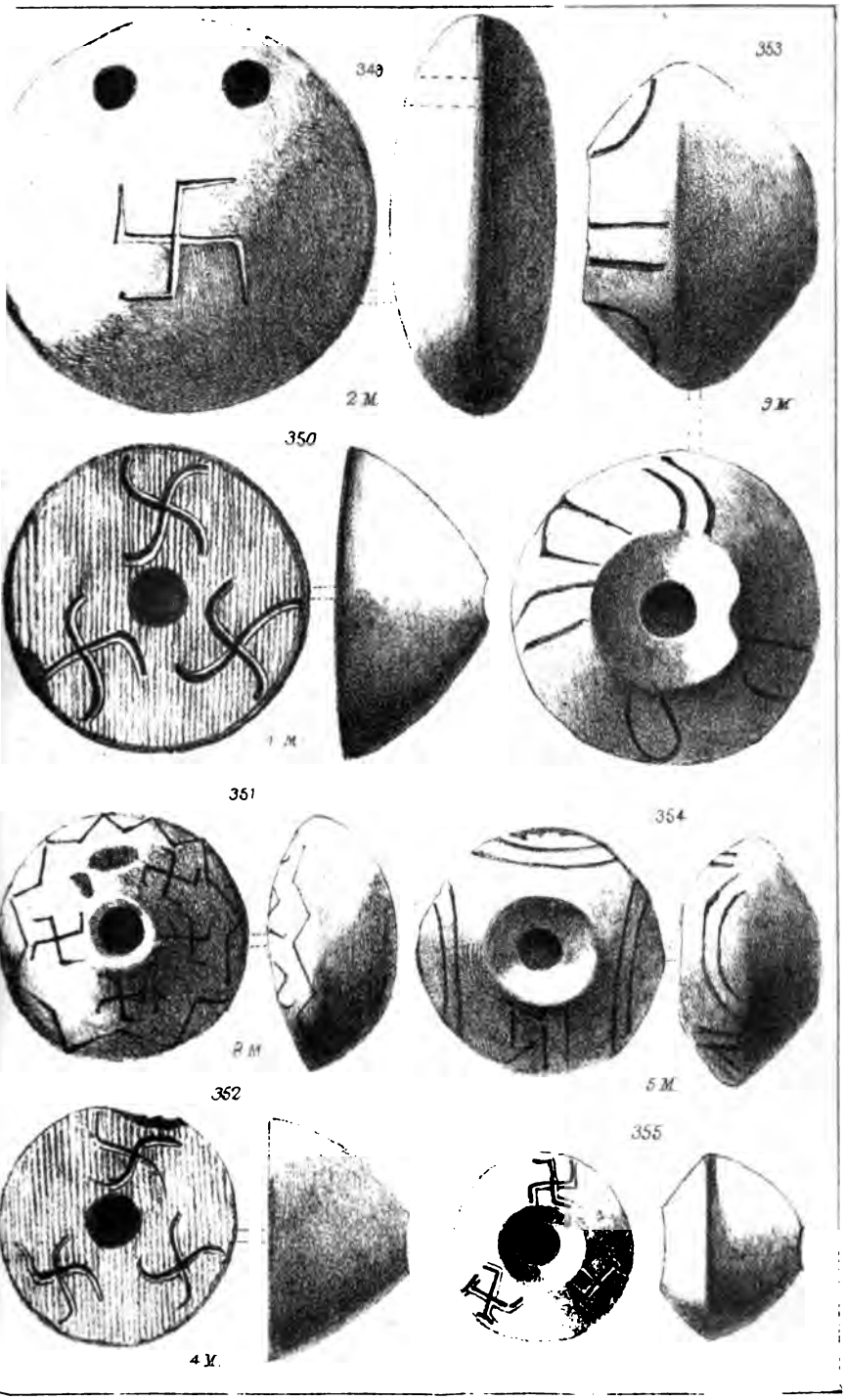

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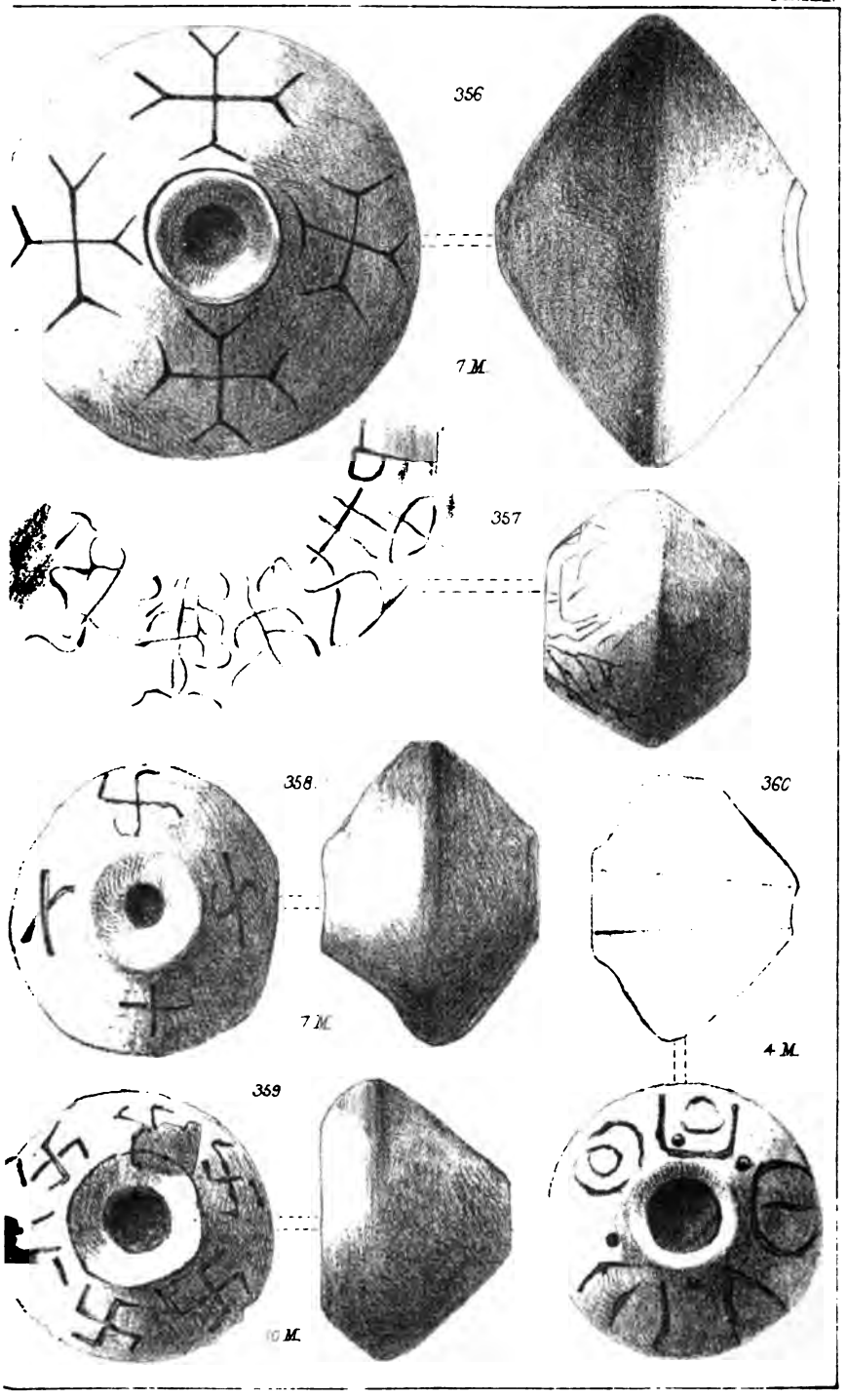

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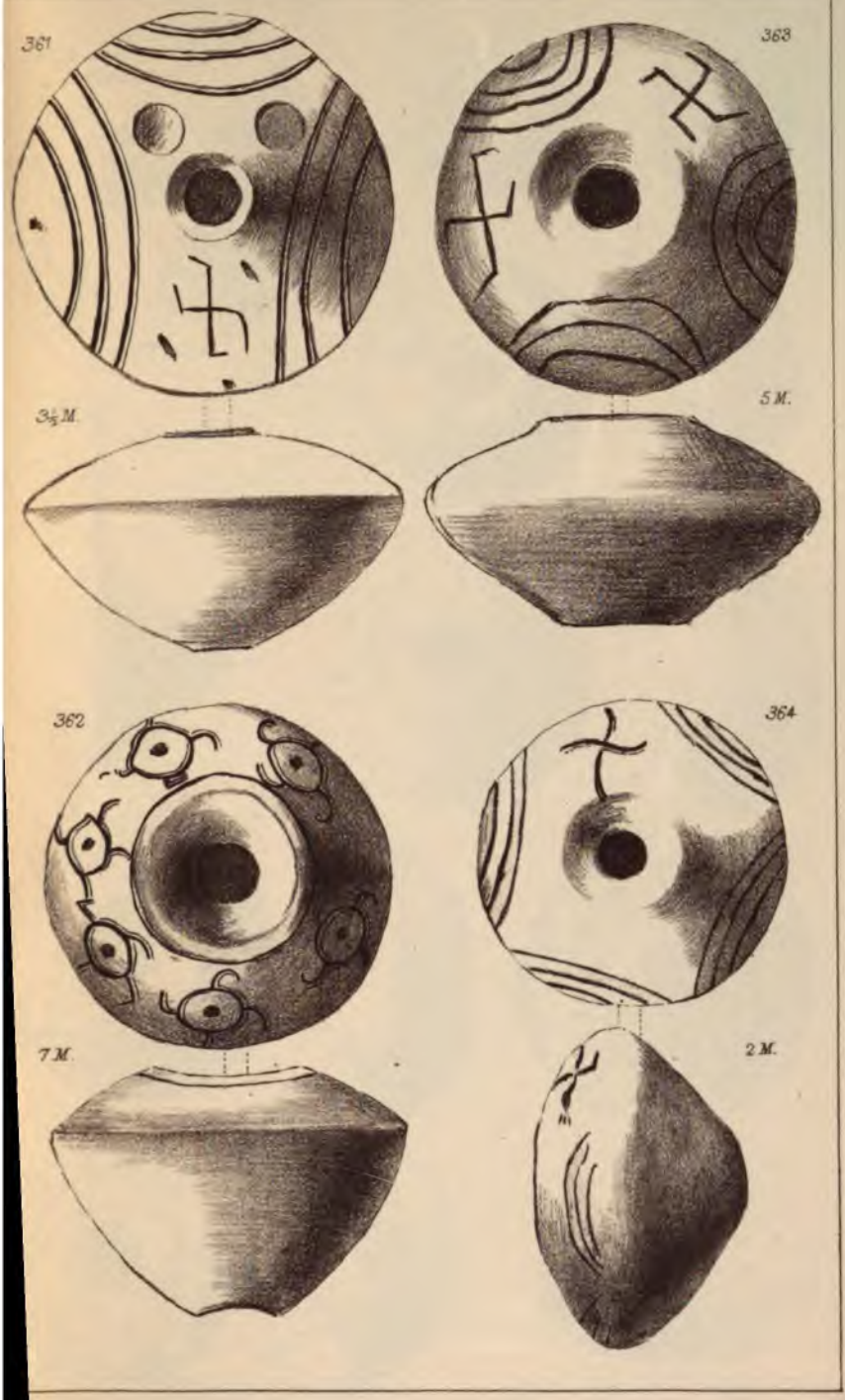

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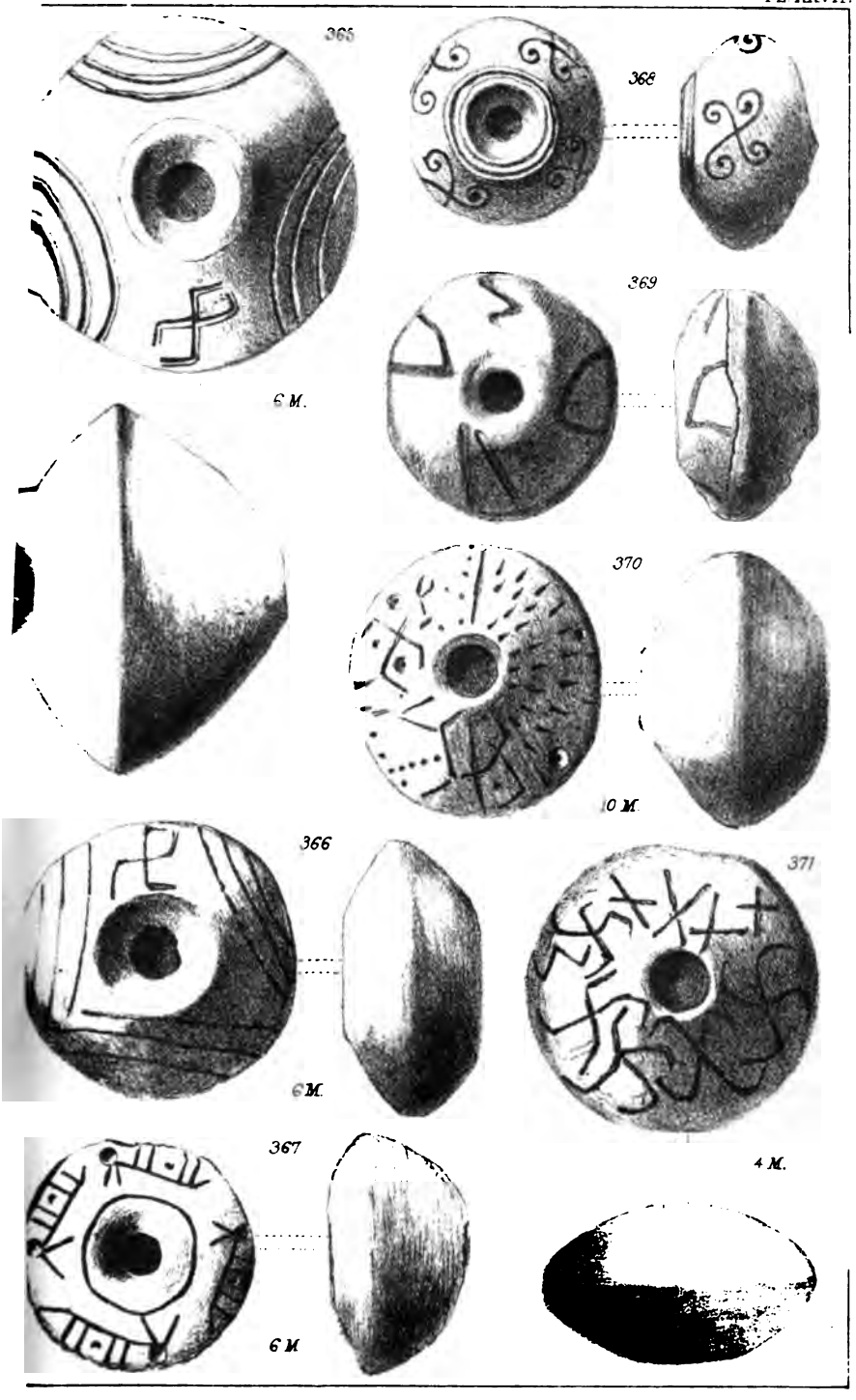

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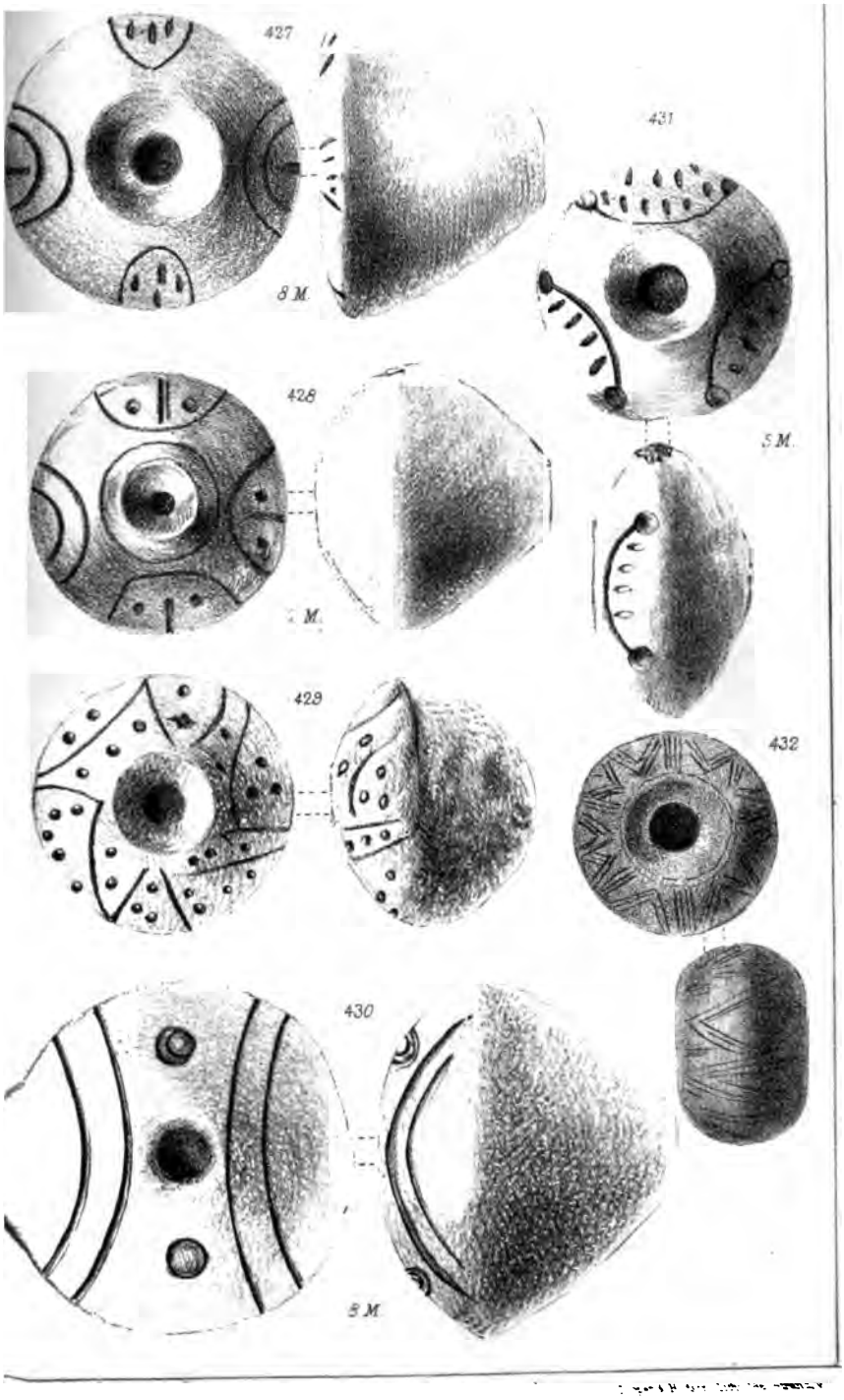

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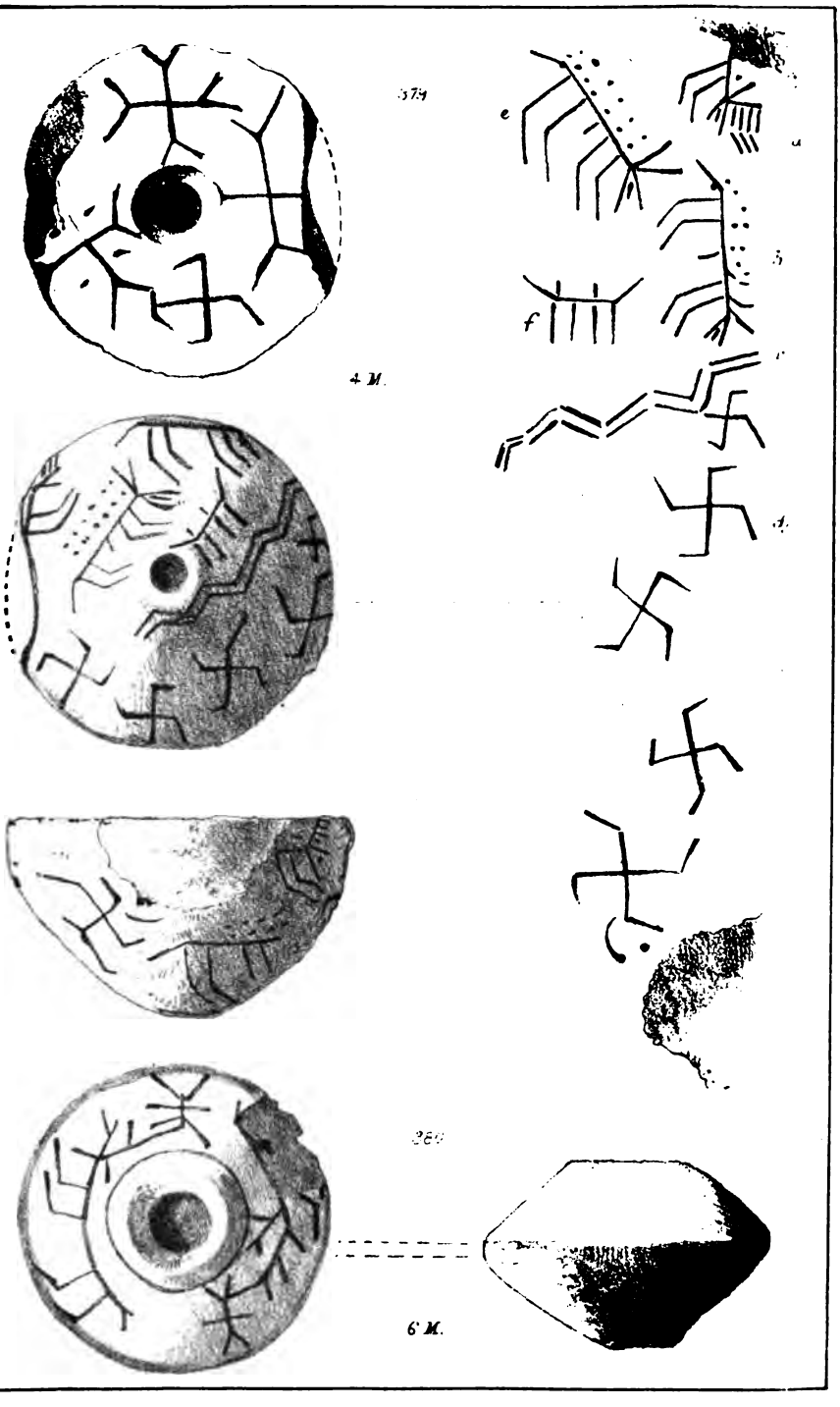

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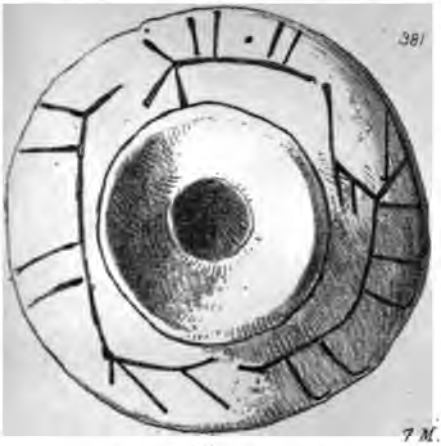

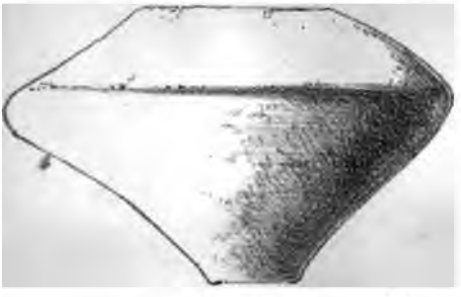

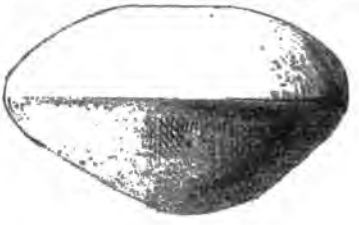

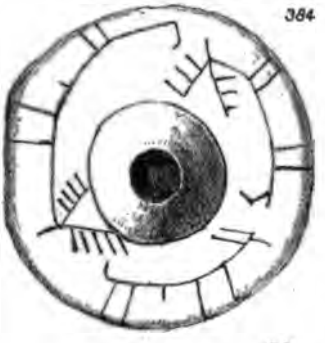

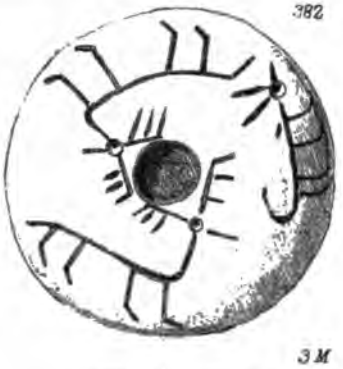

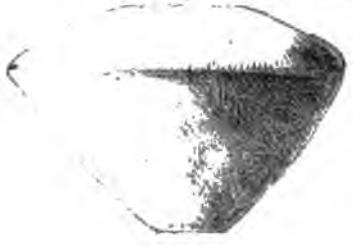

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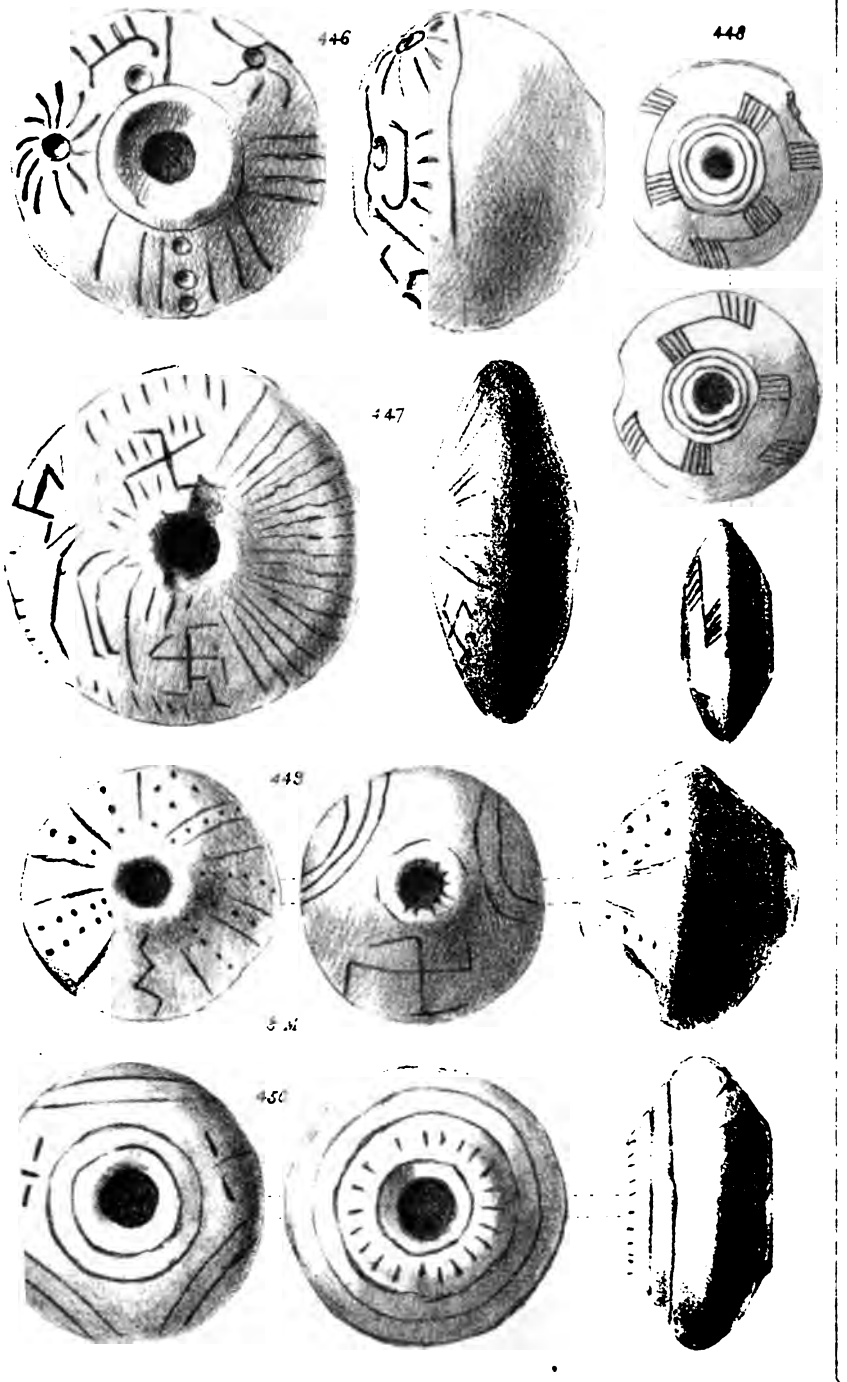

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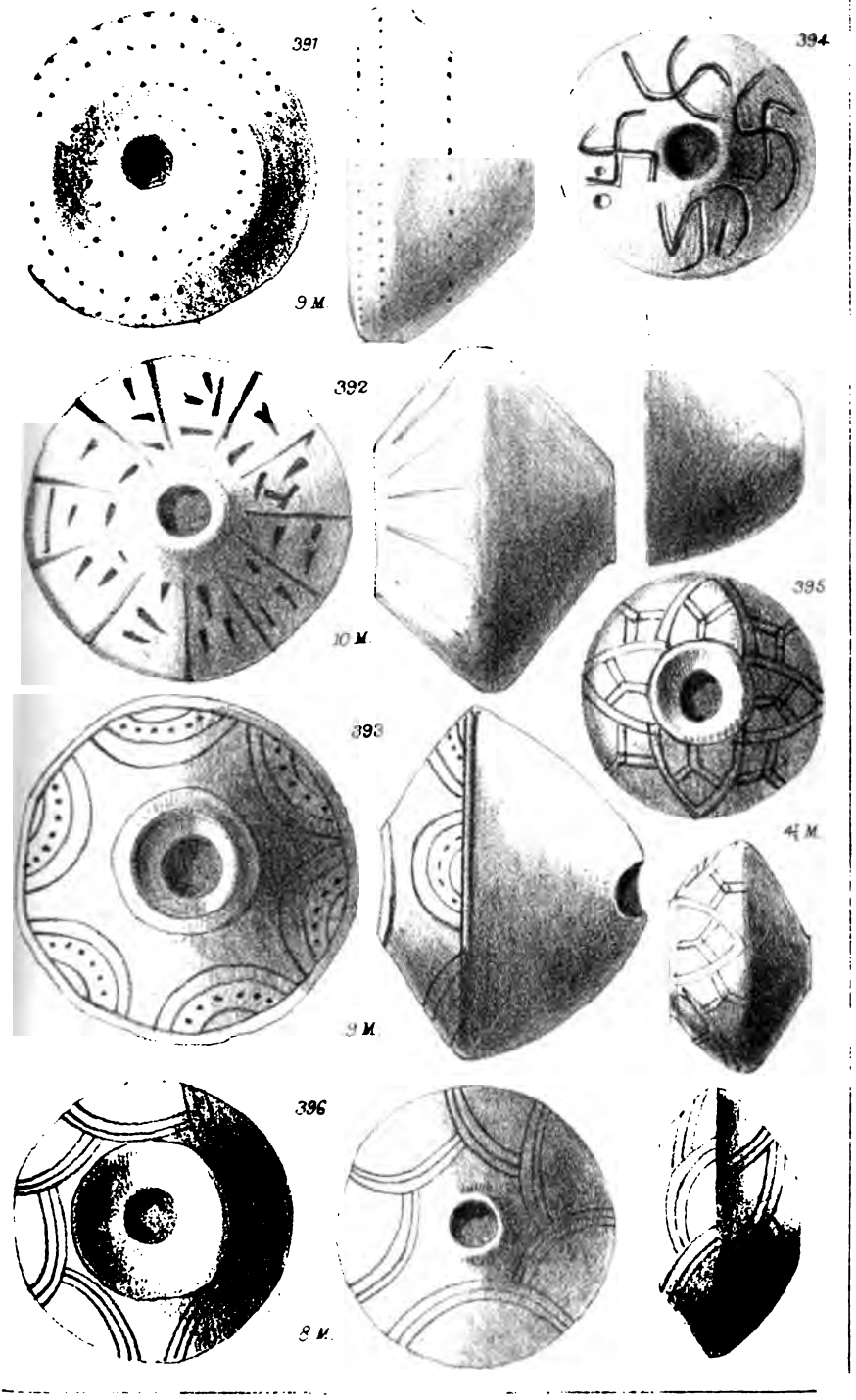

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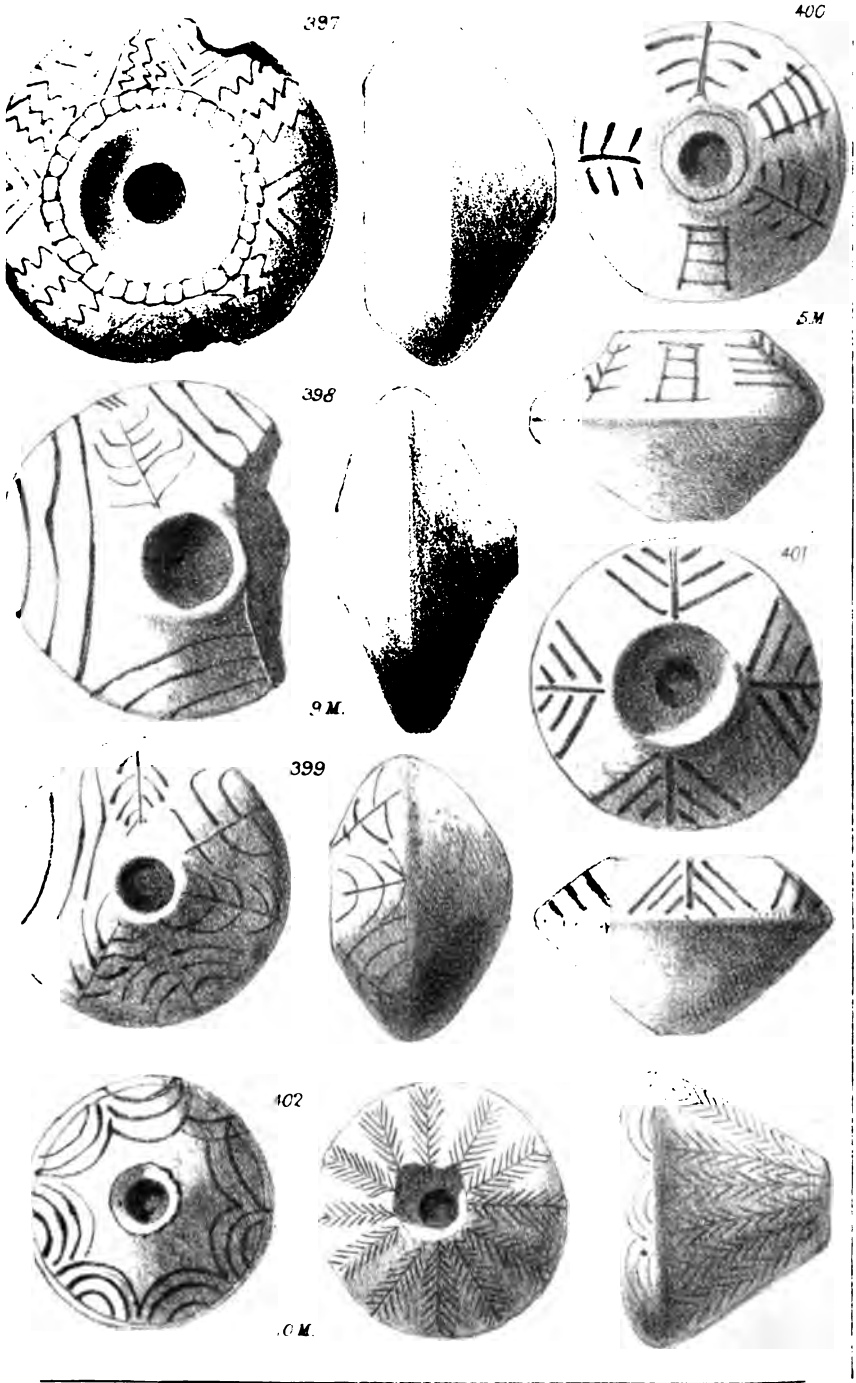

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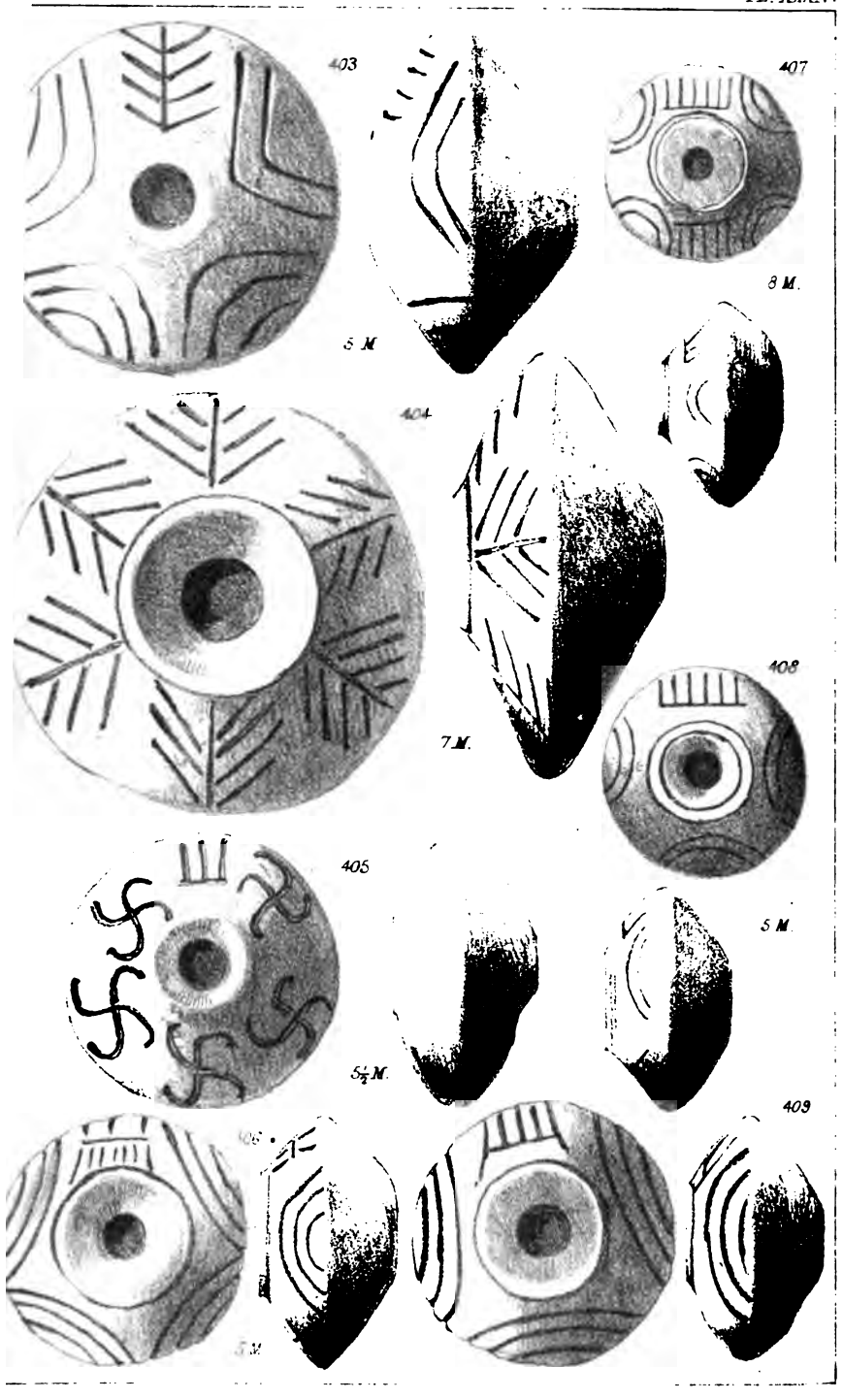

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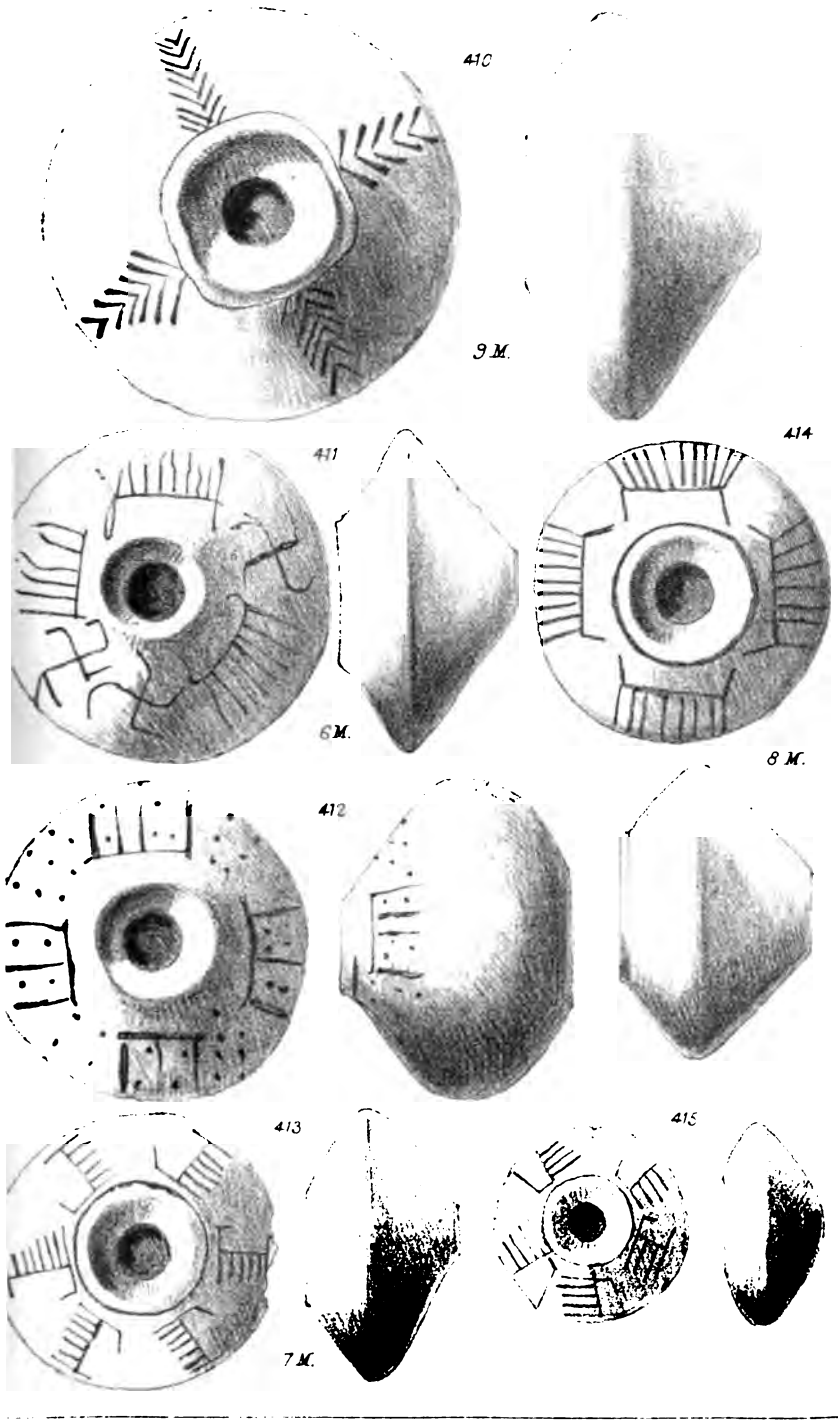

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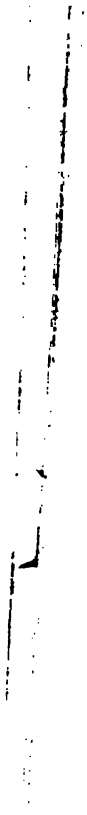

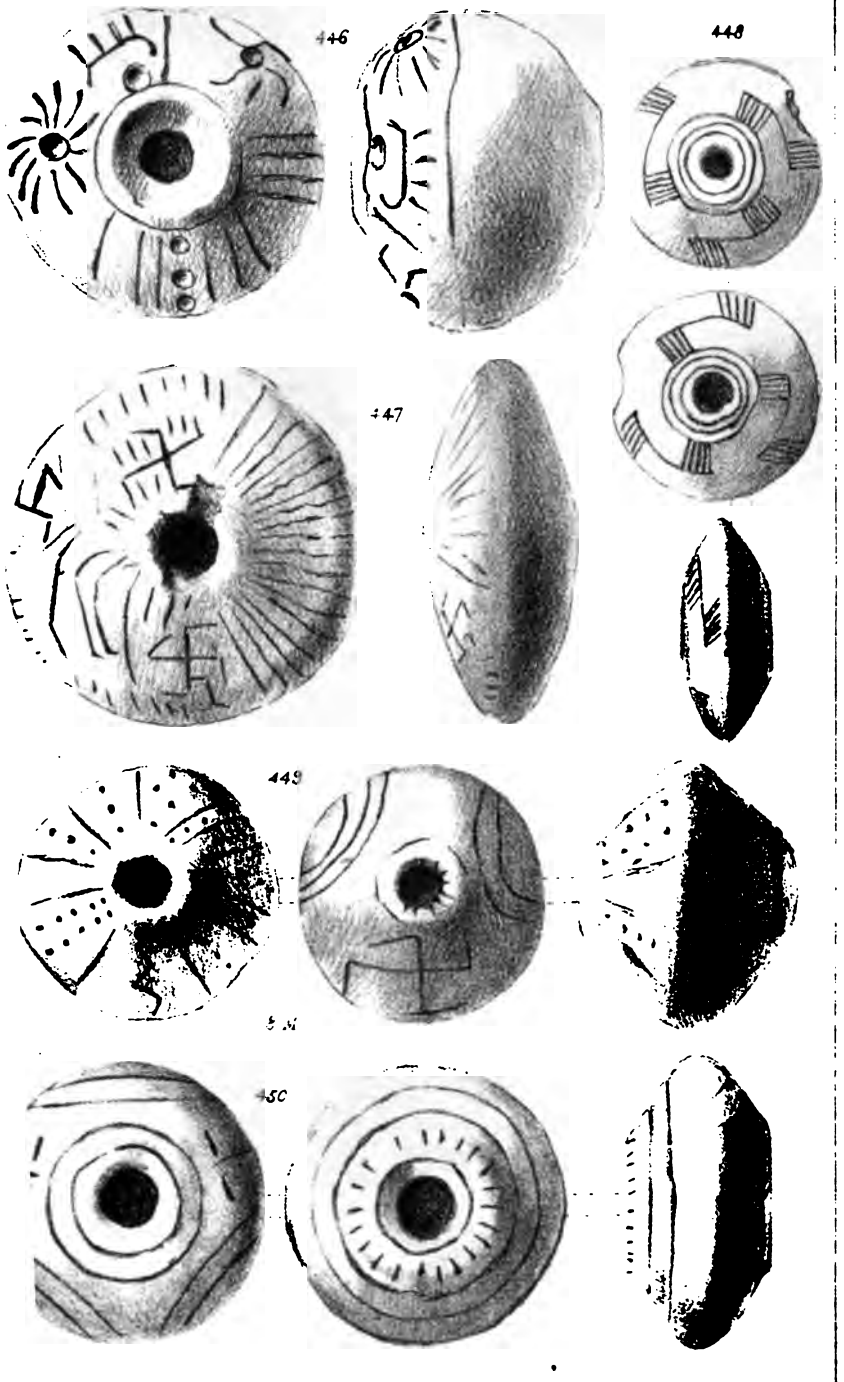

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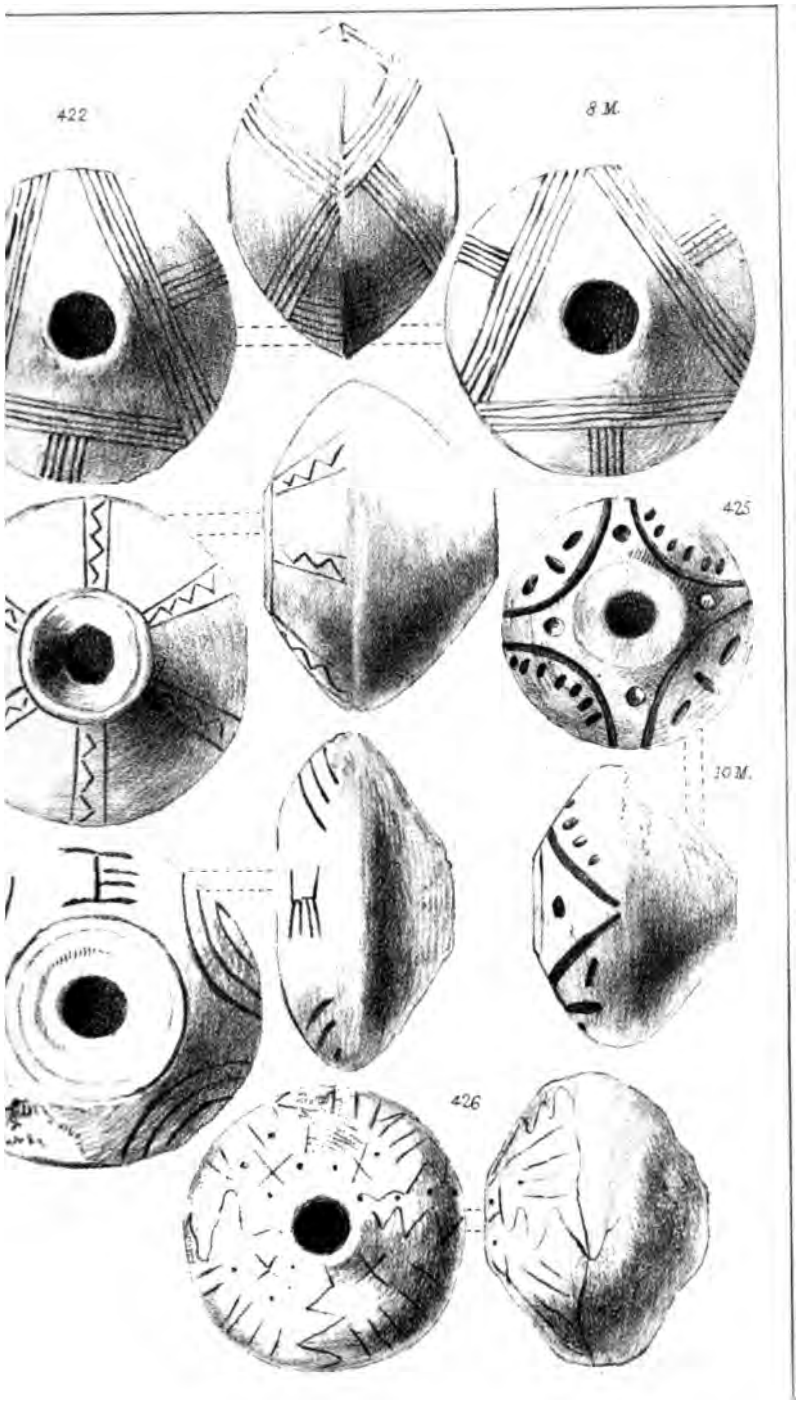

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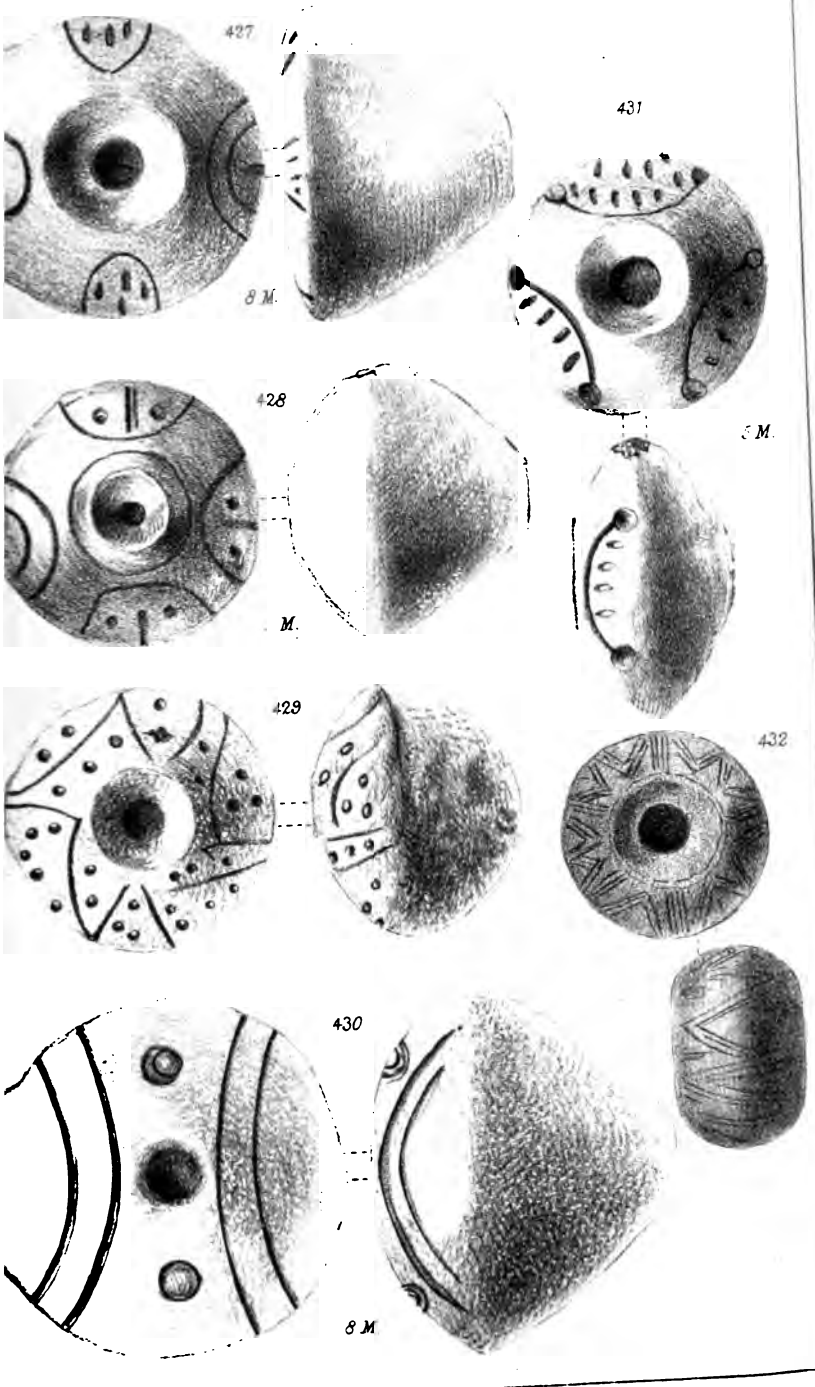

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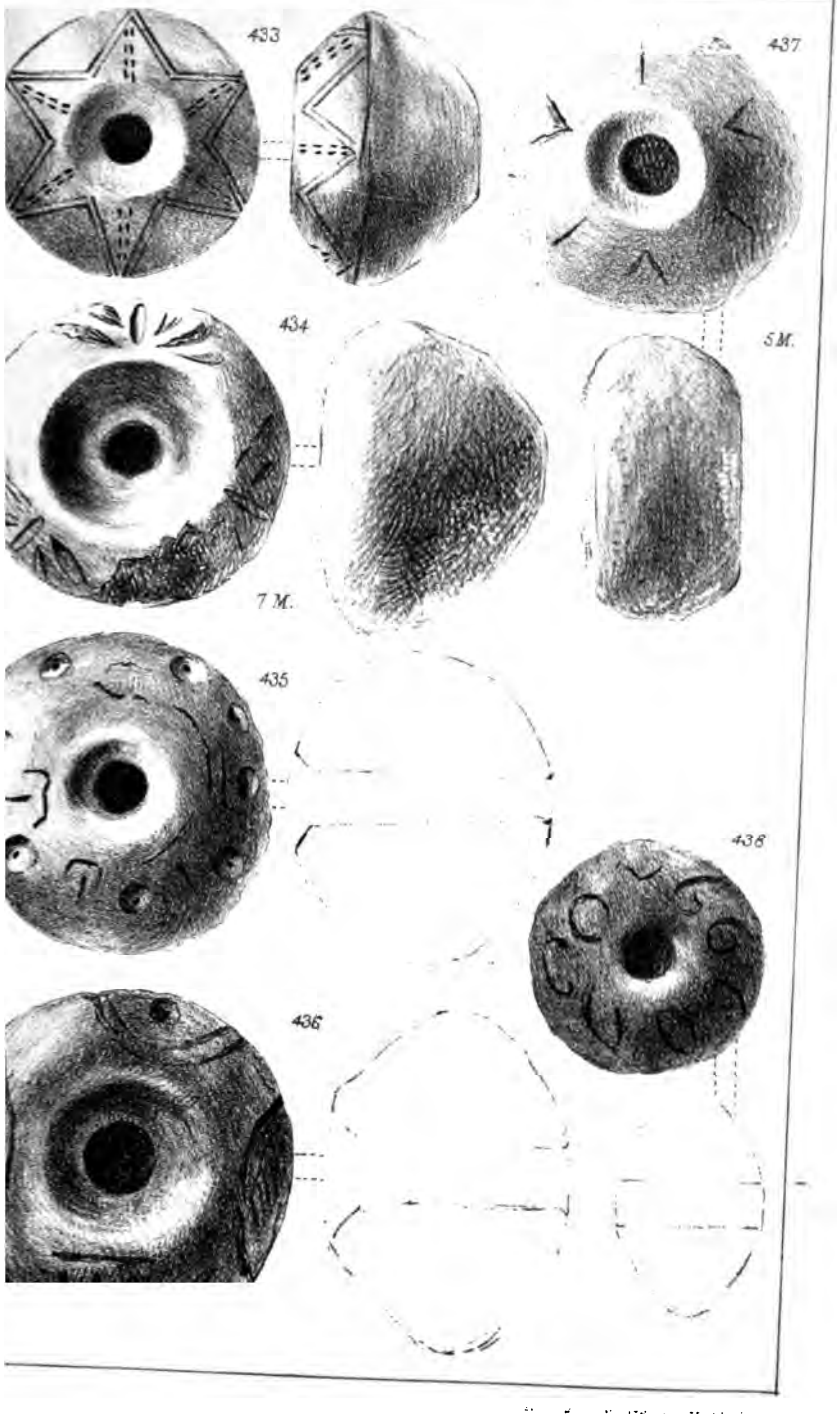

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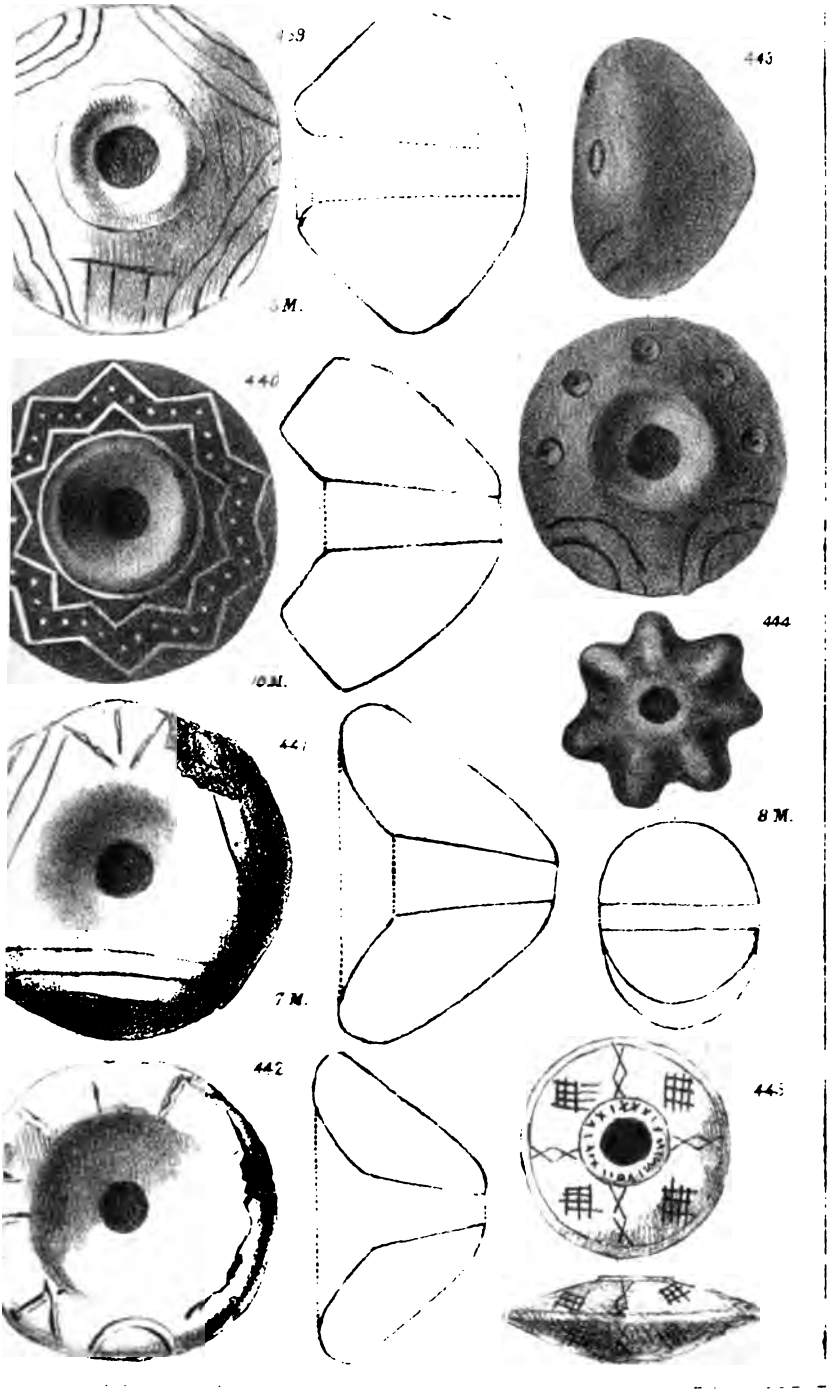

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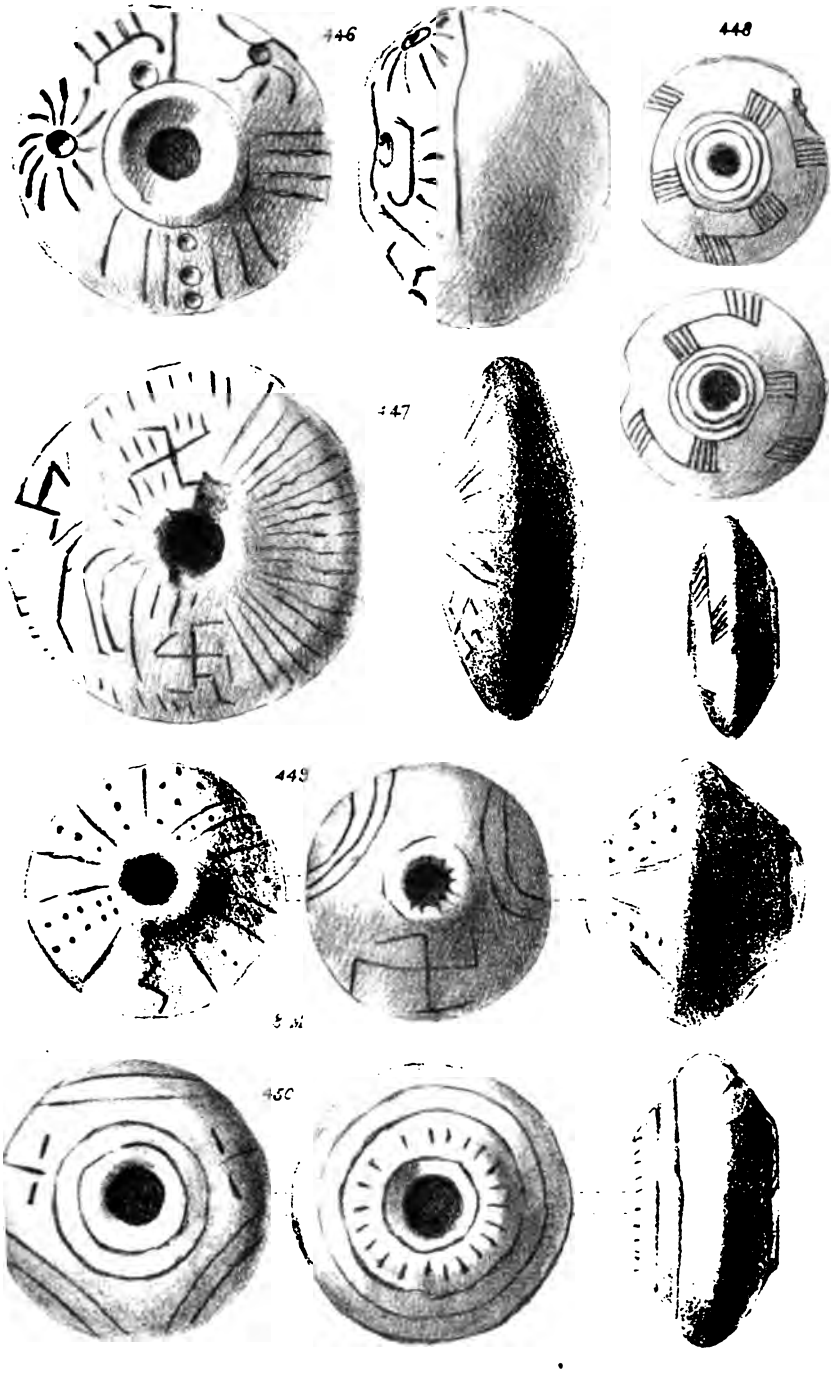

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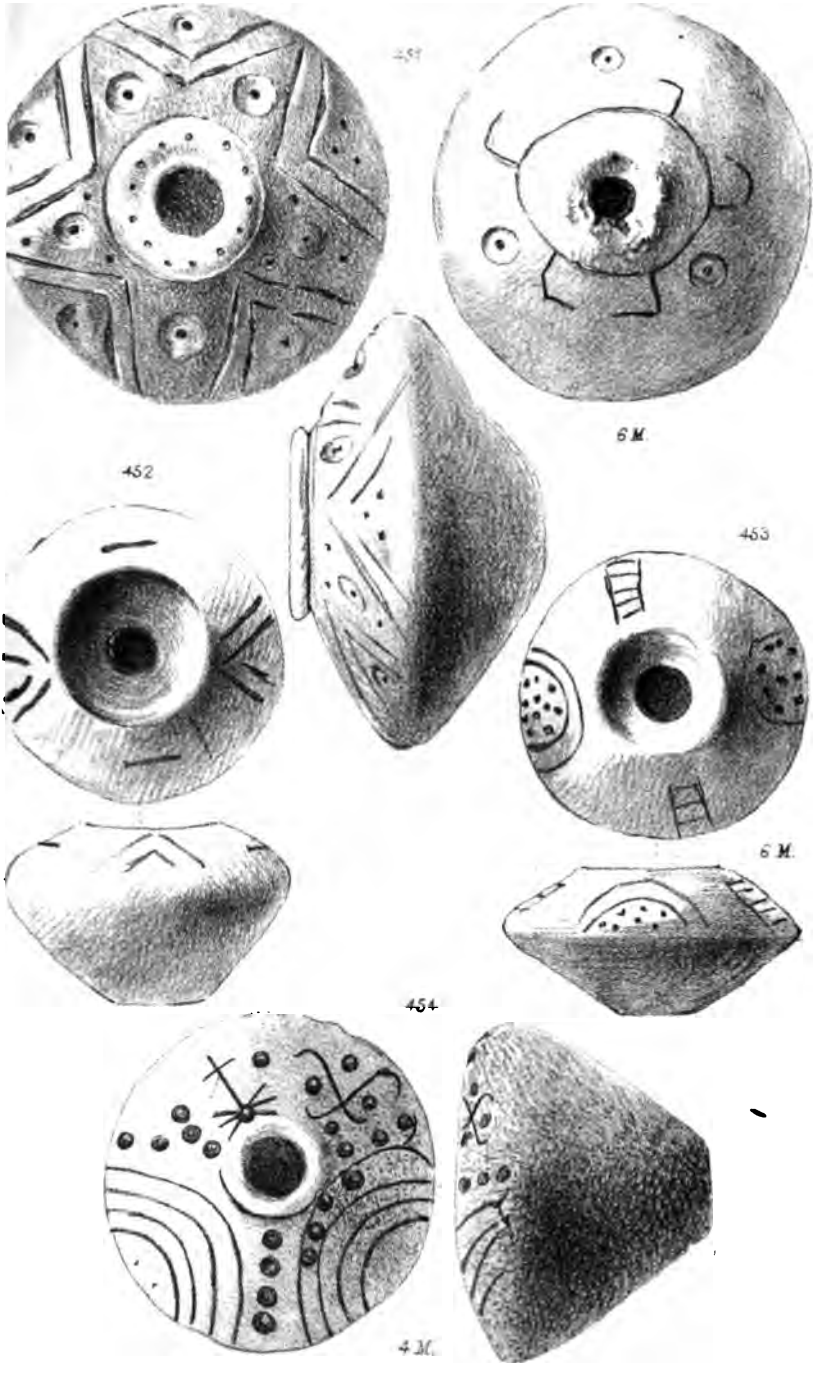

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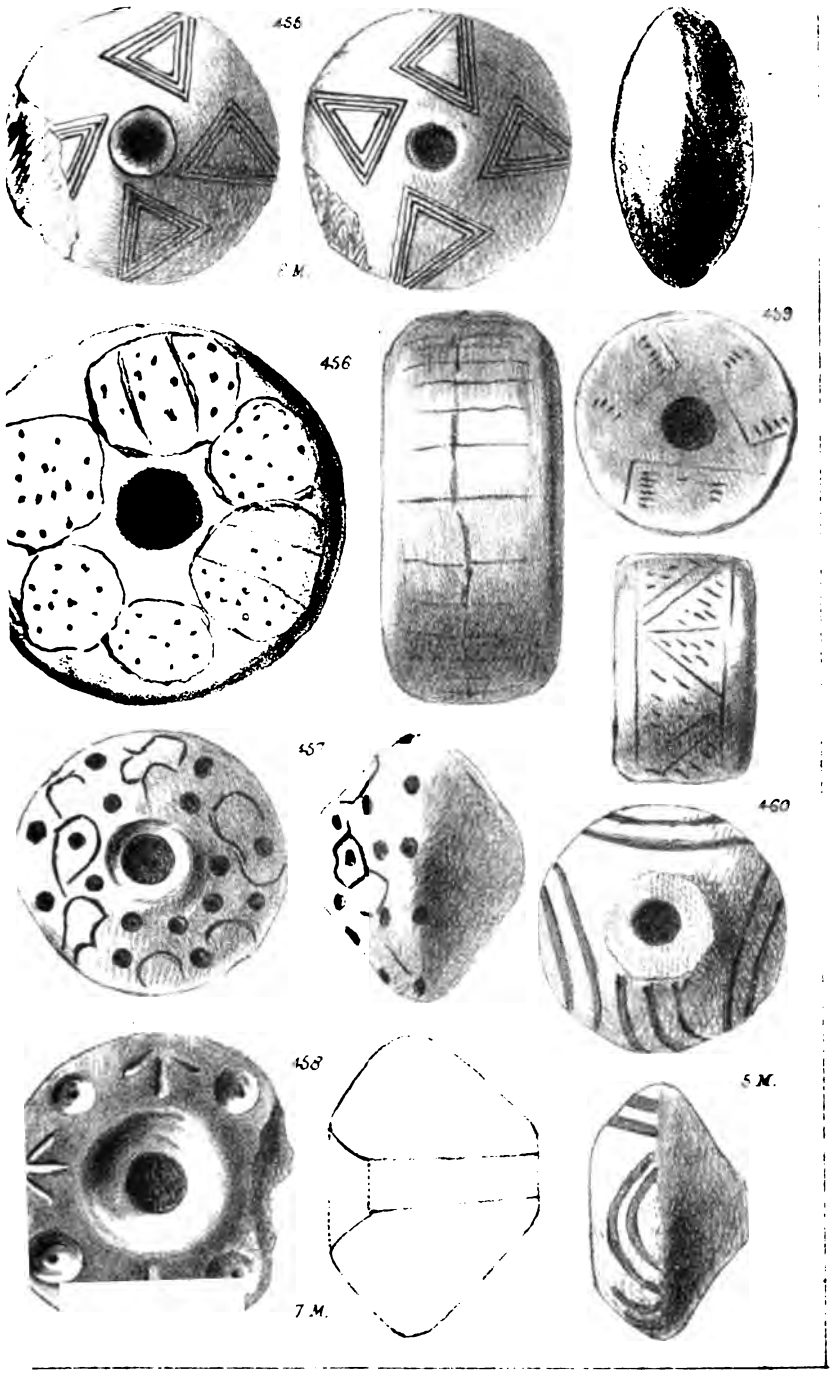

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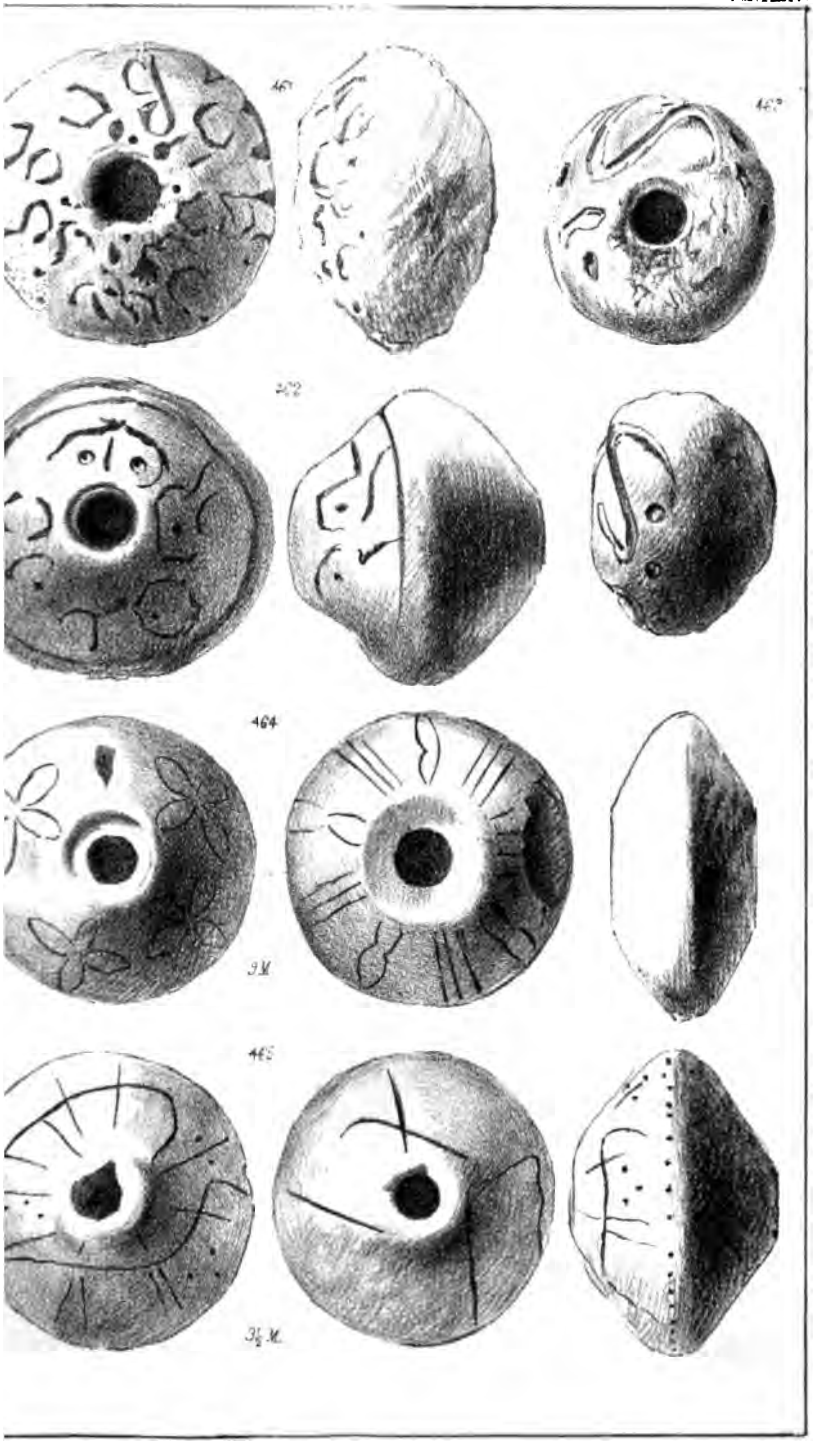

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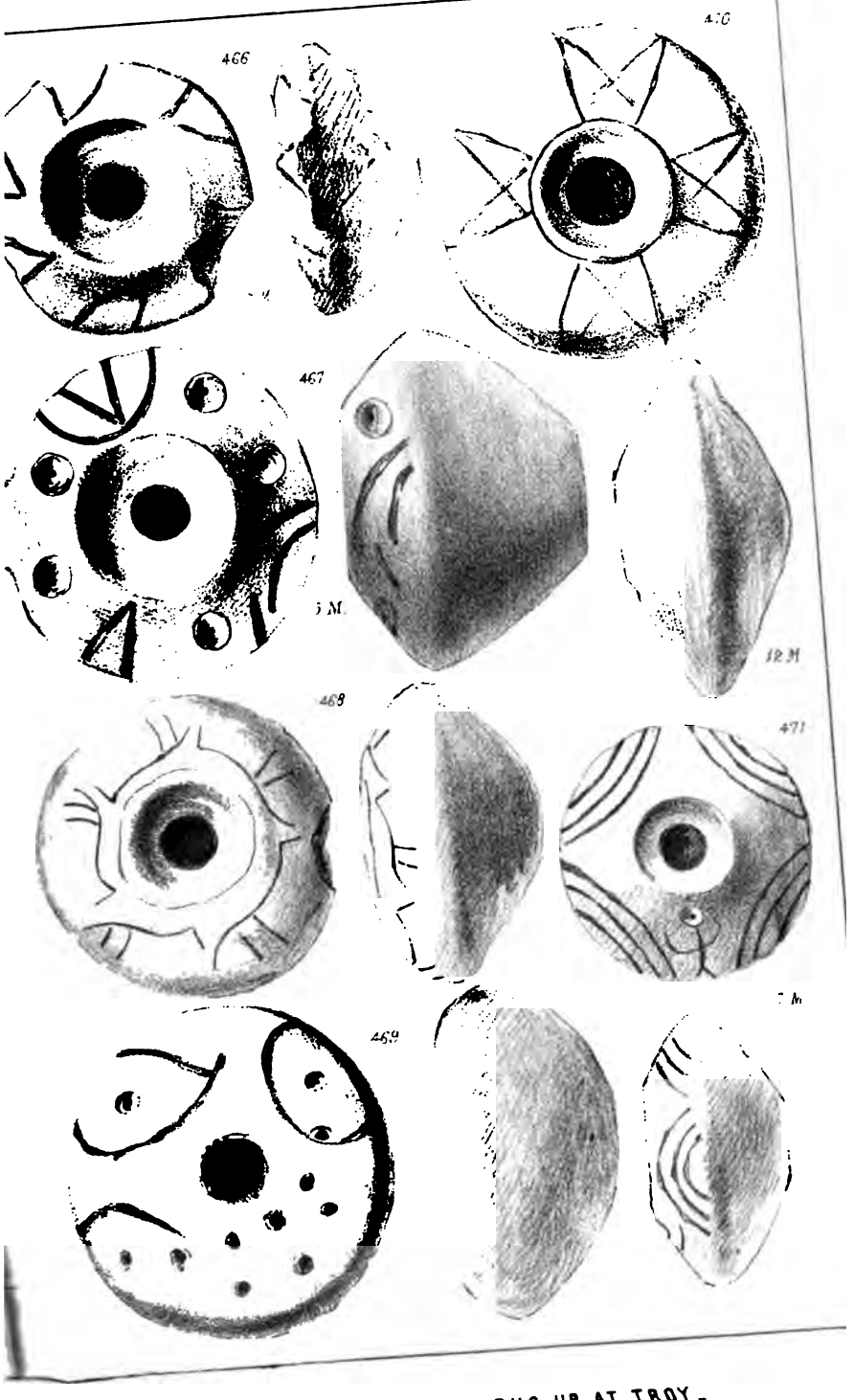

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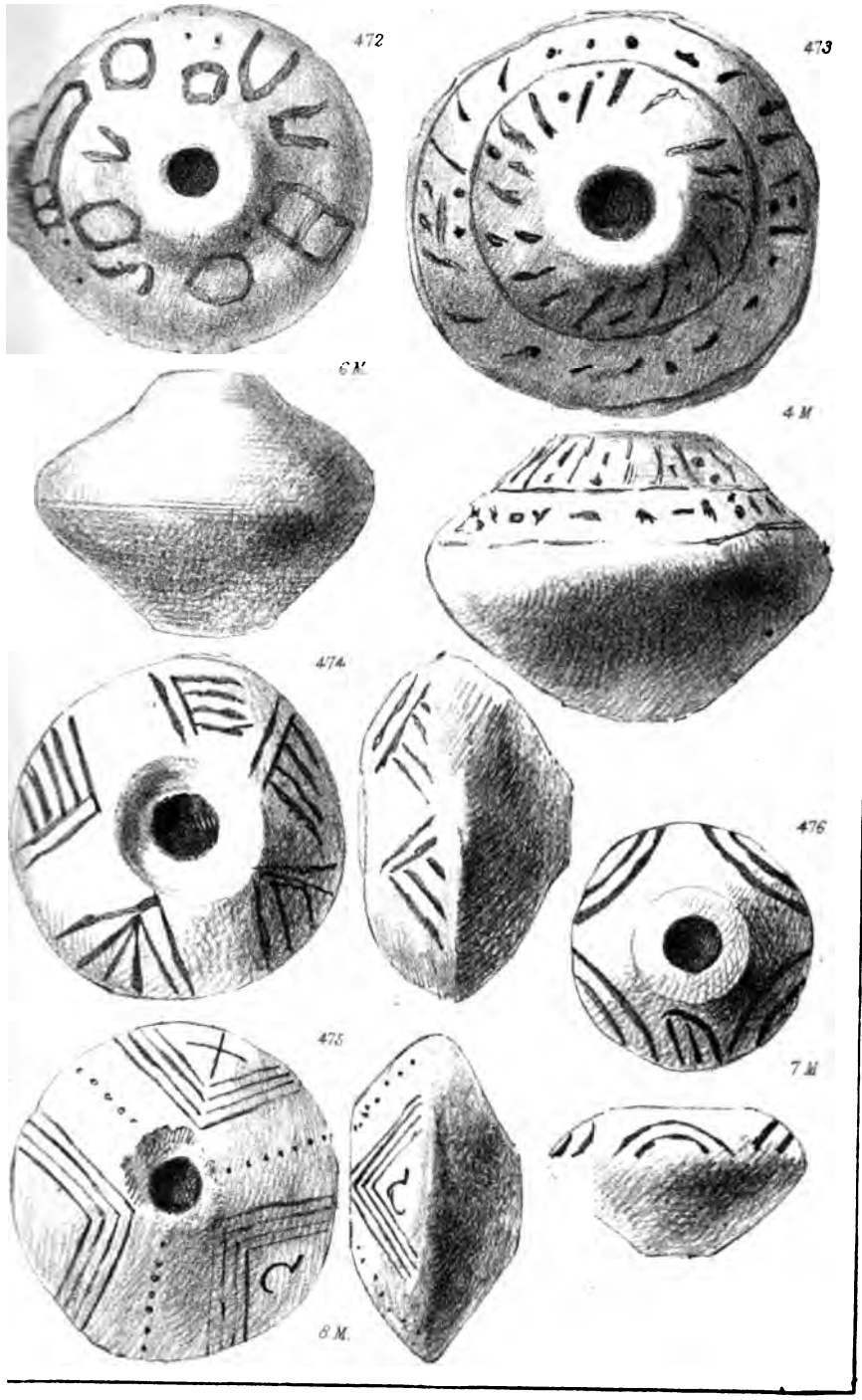

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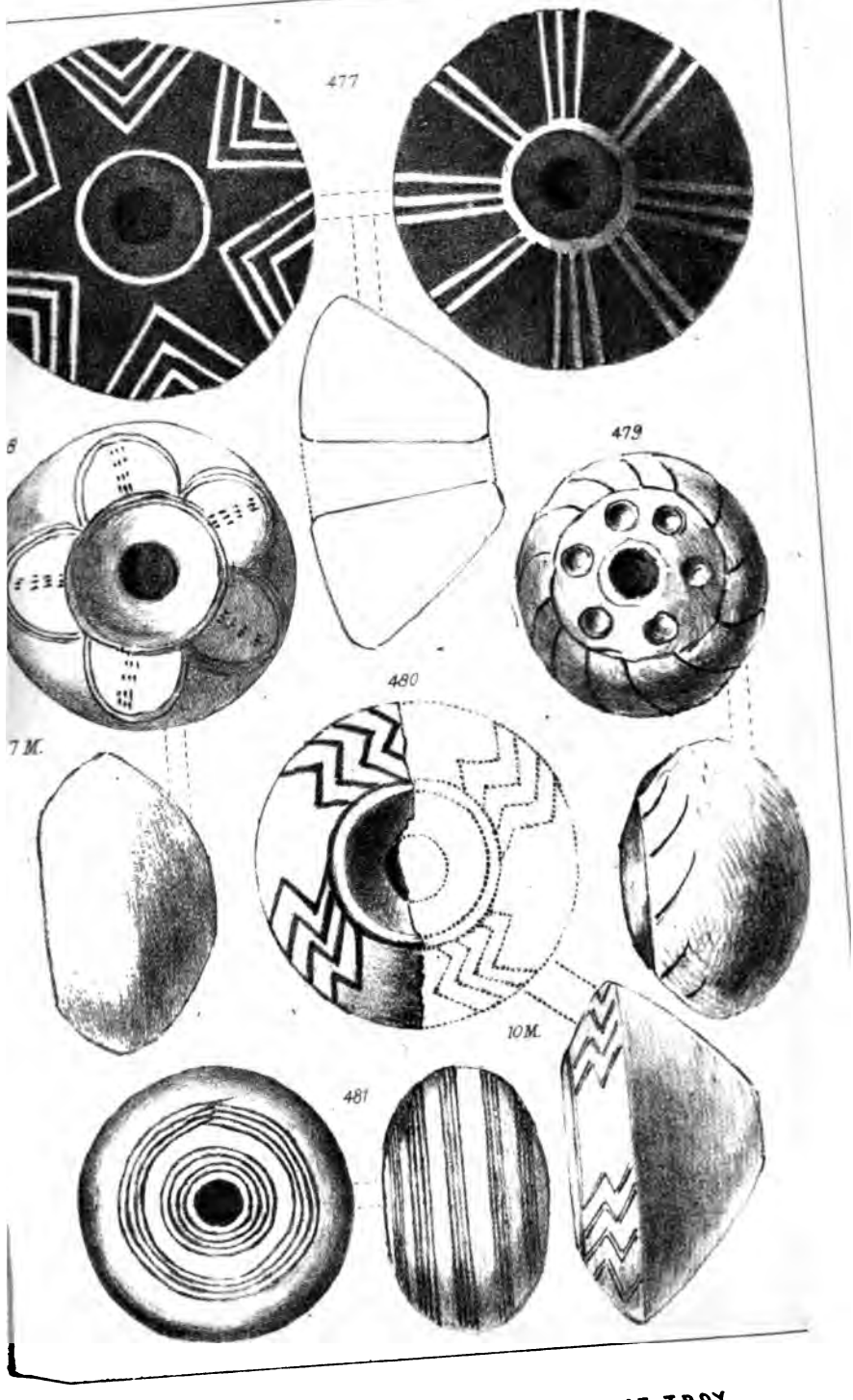

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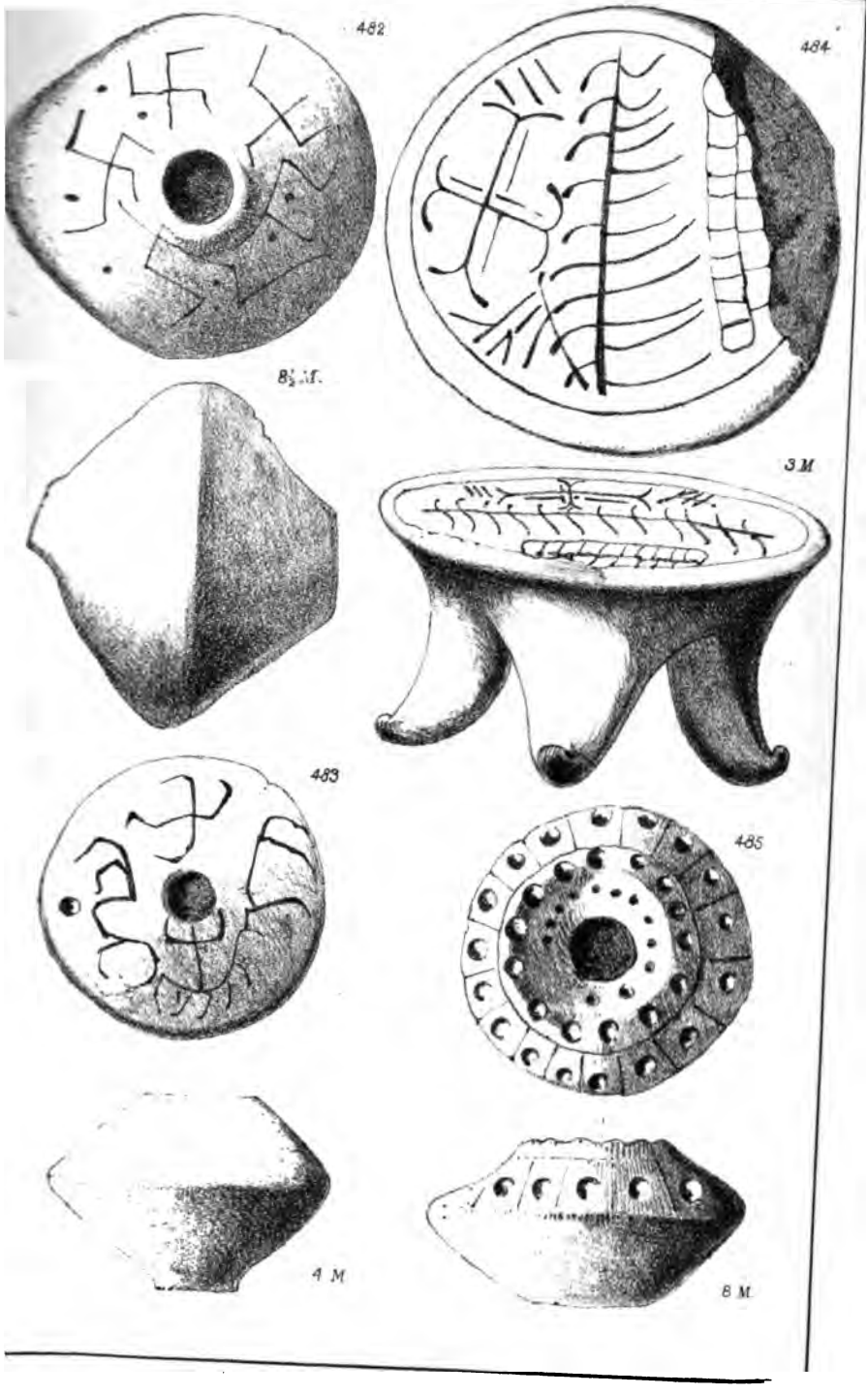

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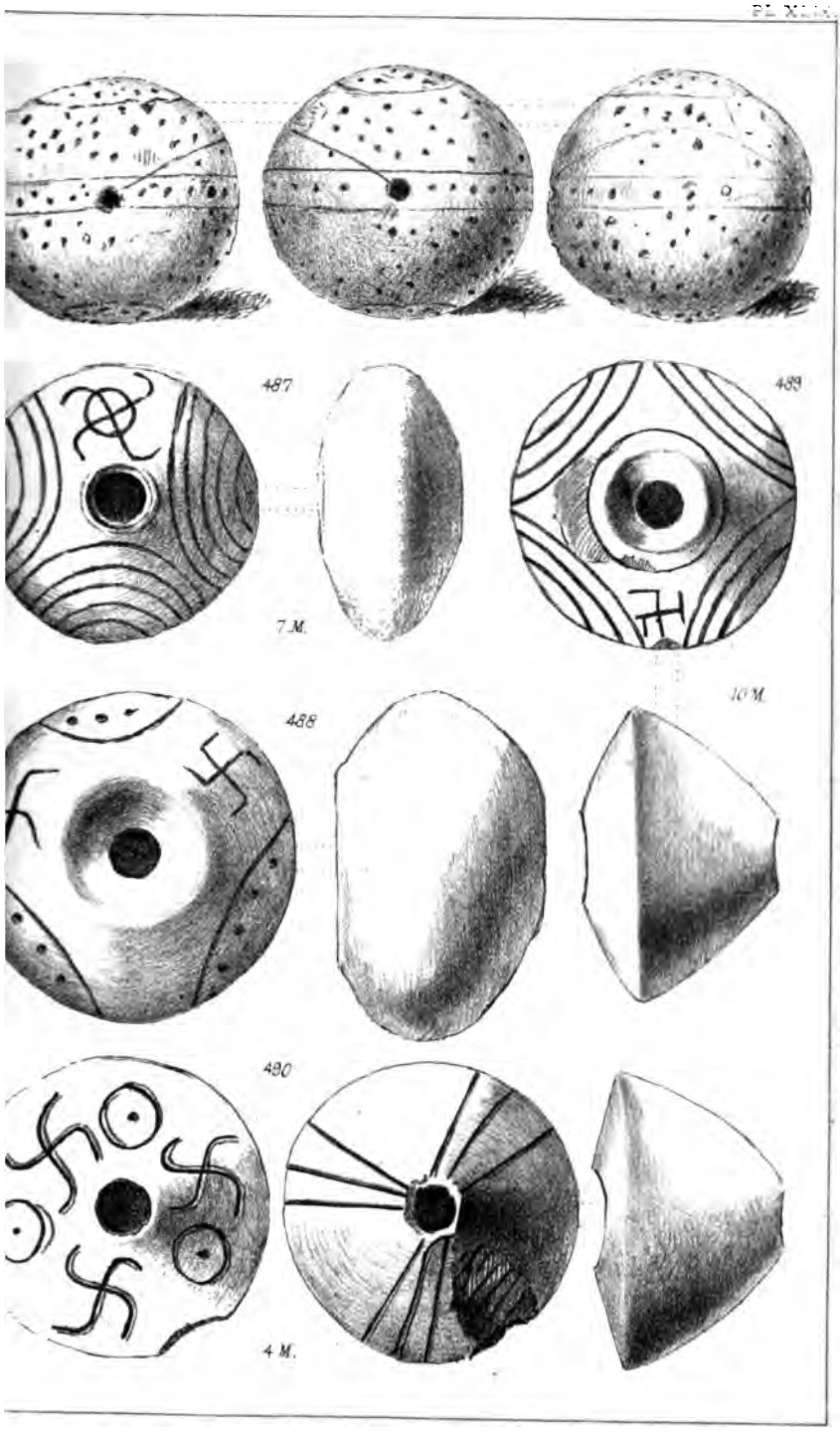

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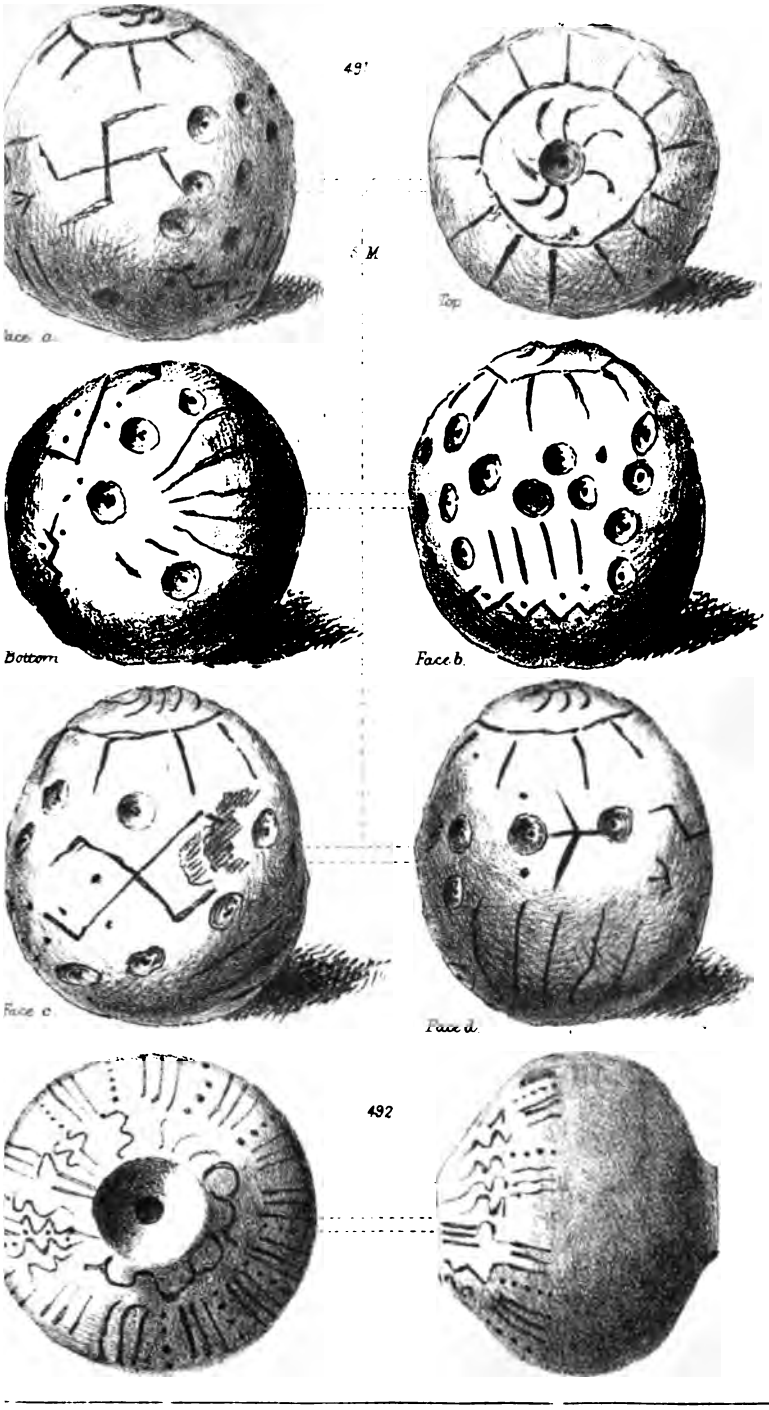

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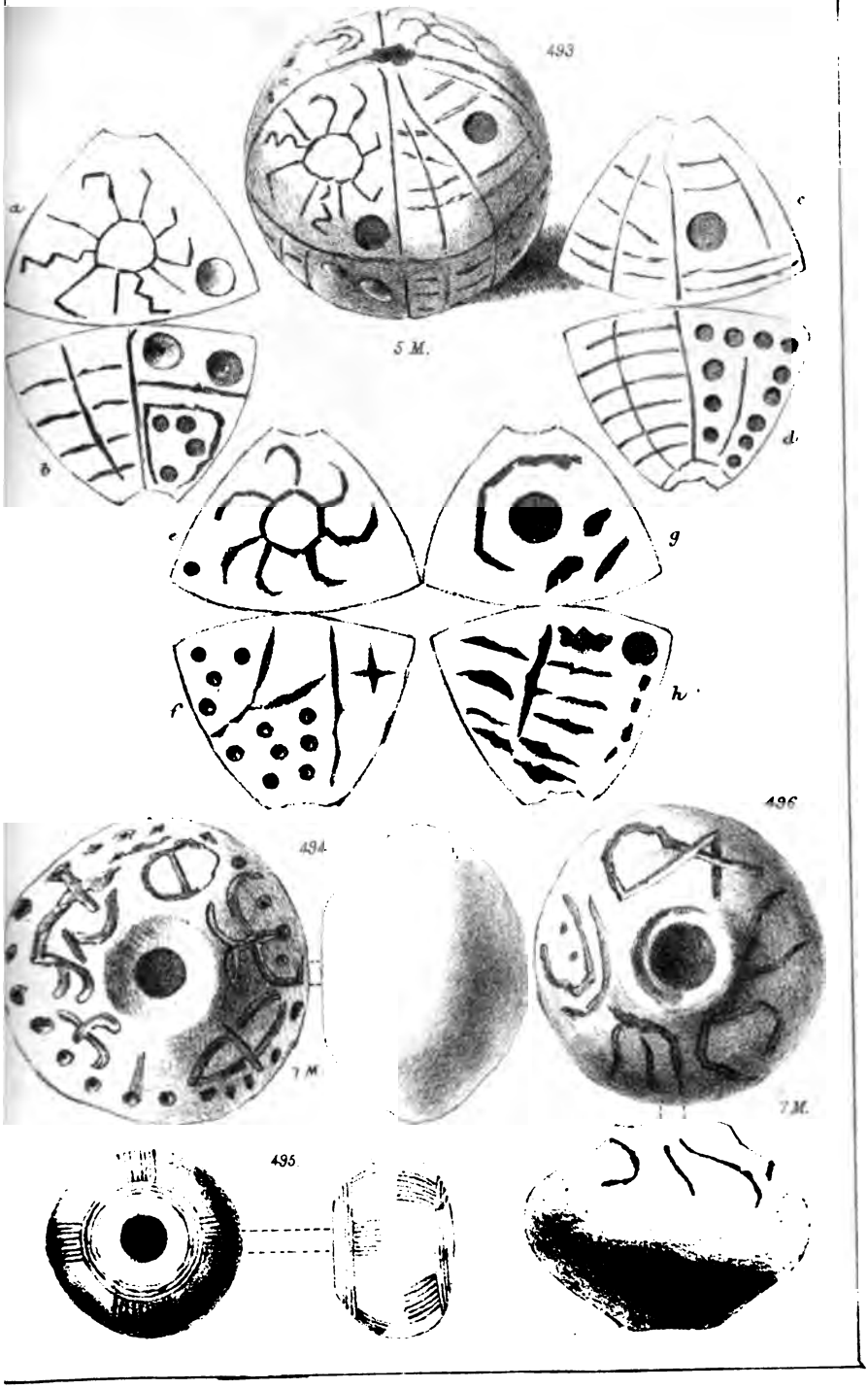

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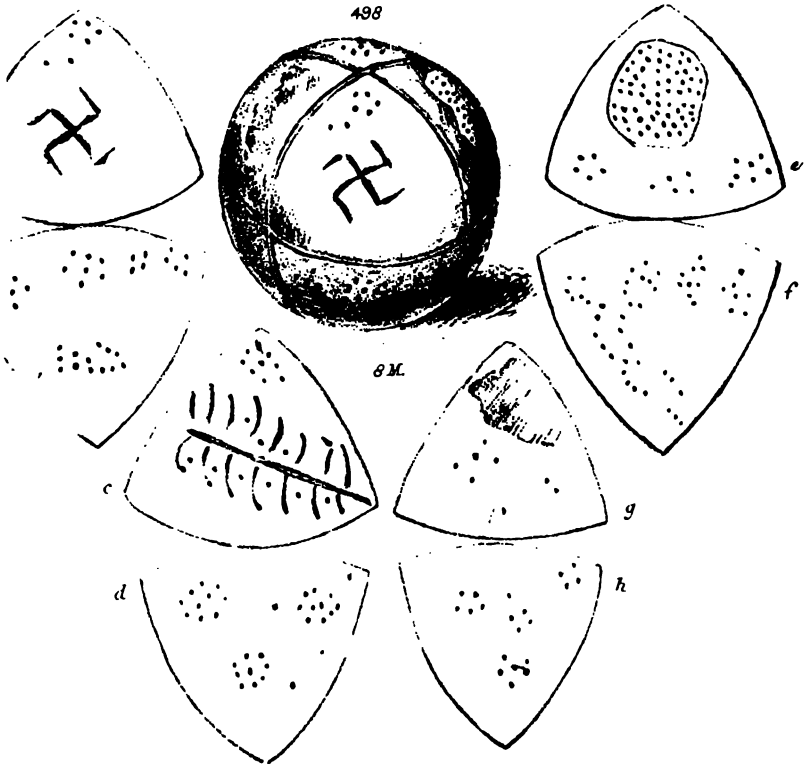

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